

**NATIONAL
TECHNICAL
APPROVAL**

ALBLITZ 100 S

[Seal: Deutsches Institut für Bautechnik]

**National technical approval /
General construction
technique permit**

An institution under public law jointly
funded by the German Federation and
the federal states (Länder)

**Approval Body for Construction
Products & Techniques**

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Applicant:
Alfix GmbH
Langhennersdorfer Straße 15
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Subject of approval:
Scaffolding components of the "ALBLITZ 100 S" scaffolding system

The subject mentioned above is hereby granted national technical approval.
This decision comprises 22 pages as well as Annex A (pages 1 to 183), Annex B (pages 1 to 16)
and Annex C (pages 1 to 38).
The subject was first granted national technical approval on 12 December 2013.

[Seal: Deutsches Institut für Bautechnik]

I GENERAL PROVISIONS

- 1 This decision confirms the usability and / or applicability of the subject matter as defined by the Building Codes of the federal states.
- 2 This decision does not replace statutory approvals, authorisations and certifications specified for carrying out construction works.
- 3 This decision is granted without prejudice to the rights of third parties, especially private property rights.
- 4 The user of the subject matter must, without prejudice to further regulations laid out under "Special Provisions", make copies of this decision available to the persons using or applying the subject matter. The person using or applying the subject matter shall also be informed that the decision must be present at the place of use. Upon request, copies must be provided to the relevant authorities.
- 5 This decision may only be reproduced in its entirety. Publication of the decision in excerpts requires the prior consent of the Deutsches Institut für Bautechnik (DIBt). Text and drawings of promotional material must be consistent with this decision. Translations must include the following note: "Translation of the original German version not reviewed by Deutsches Institut für Bautechnik".
- 6 This decision is issued in a revocable manner. The provisions of this decision may be amended or modified at a later time, particularly if new technical knowledge requires this.
- 7 This decision relates to the information on the subject matter of the permit made available by the applicant during the approval process and the documents submitted. Any change made to these decision bases is not covered by this decision and must be disclosed to the Deutsches Institut für Bautechnik without delay.

II SPECIAL PROVISIONS

1 Subject matter and scope of use and application

1.1 Subject matter of the approval and scope of application

Subject matter of the approval are prefabricated scaffolding components in accordance with table 1 for use in the "ALBLITZ 100 S" scaffolding system.

1.2 Subject matter of the permit and scope of application

Subject matter of the approval is the planning, dimensioning and execution of the "ALBLITZ 100 S" scaffolding system, consisting of scaffolding components

- according to table 1,
- according to table 3 and
- MVV TB (Model Administrative Provisions – Technical Building Rules), section C 2.16 in accordance with the respective scope of application.

The main load-bearing structure consists of steel vertical frames $b = 1.088$ m, decks $l \leq 3.07$ m and vertical diagonal braces in the outer vertical plane.

The scaffolding system has been verified for use as a working and service scaffold according to the DIN EN 12811-1:2004-03 in connection with the "Application Guideline for working scaffolds in accordance with DIN EN 12811-1"¹ and DIN 4420-1:2004-03.

2 Provisions for the scaffold components

2.1 Properties

2.1.1 General provisions

The scaffolding components according to table 1 must comply with the provisions of annex A, the provisions in the documents filed at the Deutsches Institut für Bautechnik (DIBt) as well as the regulations of the sections below.

Table 1: Scaffolding components of the "ALBLITZ 100 S" scaffolding system

Designation	Annex A, page	Detailed view / components in accordance with Annex A, page
Vertical frame AF 2.00/1.50x1.09 m	178	180
Vertical frame AF 1.00/0.66x1.09 m	179	180

2.1.2 Materials

2.1.2.1 Metals

Metal materials must comply with the technical rules according to table 2. Their properties must be confirmed by means of a material test certificate in accordance with table 2.

Components for which the material specifications are stored at the Deutsches Institut für Bautechnik, the properties shall be confirmed by means of the following material test certificates:

- For structural steel without increased yield strengths and with a defined minimum yield strength of ≤ 275 N/mm², a test report 2.2 issued by the factory is sufficient.

For all other metal materials, an inspection report 3.1 is mandatory.

2.1.3 Corrosion protection

The technical building regulations shall apply.

¹

See DIBt-Mitteilungen (notifications of the DIBt), issue 2/2006, p. 61 et seq

Table 2: Technical rules and material test certificates for the metal materials of the scaffolding components

Material	Material number / 5-digit code	Designation	Technical regulation	Material test certificate according to DIN EN 10204: 2005-01
Structural steel	1.0038	S235JR ^{*)}	DIN EN 10025-2:	2.2 ^{*)}
	1.0045	S355JR	2019-10	3.1
	1.0039	S235JRH ^{*)}	DIN EN 10219-1: 2006-07	2.2 ^{*)}
	1.0579	S355J2C+C	DIN EN 10277: 2018-09	3.1
	1.0335	DD13	DIN EN 10111: 2008-06	

^{*)} For some scaffolding components, an increased yield strength $R_{eH} \geq 320 \text{ N/mm}^2$ is mandatory. These components have been marked accordingly in the drawings in annex A. The proportional strain at fracture A may not be lower than 15 %. For a wall thickness of $< 3 \text{ mm}$, the proportional strain at fracture of $A_{80\text{mm}}$ shall be determined. The conversion of $A_{80\text{mm}}$ to A shall be done in accordance with DIN EN ISO 2566-1.

The values of the yield strength, the strain at fracture and the tensile strength shall be confirmed by means of an inspection report 3.1 in accordance with DIN EN 10204:2005-01. The purchase requisition regarding the increased yield strength shall be indicated in the inspection report 3.1 as a desired value.

2.2 Manufacturing and marking

2.2.1 Manufacturing

Companies that manufacture welded scaffolding components in accordance with the present decision shall demonstrate that they are qualified for this task.

For steel components, this proof shall be considered to be furnished, if welding procedures and welding personnel are qualified in accordance with DIN EN 1090-2:2018-09 and the company holds a welding certificate of at least execution class 2 (EXC 2) in accordance with DIN EN 1090-1:2012-02.

2.2.2 Marking

The delivery notes for scaffolding components according to table 1 shall be marked in accordance with the regulations for the mark of conformity of the federal states (Länder).

In addition, scaffolding components shall be permanently and easily recognisably marked with:

- the uppercase letter "Ü",
- at least the abbreviated approval number "943",
- the identifying mark (logo) of the manufacturer, and
- the last two digits of the year of manufacture.

These identifying marks may only be applied if the requirements under section 2.3 are fulfilled.

2.3 Attestation of conformity

2.3.1 General provisions

Attestation of conformity of the scaffolding components according to section 2.1 with the provisions of the National Technical Approval covered by this decision must be provided for each manufacturer's work by a declaration of conformity on the basis of factory production controls and a certificate of conformity issued by a recognised certification body as well as regular external supervision, including a product test of scaffolding components and their components in accordance with the provisions below by a recognised inspection body.

The manufacturer of the scaffolding components must involve a recognised certification body as well as a recognised inspection body to obtain a certificate of conformity and to carry out the external supervision, including the product tests.

The declaration that a certificate of conformity has been issued must be indicated by the manufacturer by marking the scaffolding components with the mark of conformity (Ü mark) with reference to the intended use.

The certification body shall provide DIBt with a copy of the initial test report upon request of the same.

DIBt shall be given a copy of the initial test report upon request of the same.

2.3.2 Factory production control

A factory production control system must be set up and operated at each production site. Factory production control is to be understood as a continuous monitoring of production to be carried out by the manufacturer, by means of which the manufacturer ensures that the scaffolding components manufactured by them are in compliance with the rules of this National Technical Approval.

Factory production control must include at least the following measures:

Scaffolding components in accordance with table 1:

- In the case of template or automatic production of scaffolding components, the respective templates and / or machine settings shall be checked and documented before commissioning.
- Checks and inspections on the starting material:
 - It shall be checked whether inspection certificates as per section 2.1.2 are available for the materials and that the attested inspection results meet the requirements.
 - At least 1‰ of the components shall be checked for conformity with dimensions and tolerances as specified in the design drawings.
- Checks and inspections on scaffolding components:
 - At least 1‰ of the scaffolding components shall be checked for conformity with dimensions and tolerances and, if necessary, welding seams and corrosion protection, as specified in the design drawings.
 - On at least 0.1‰ of the pressed-in tube connectors of the standards according to Annex A, pages 178 and 179, a tensile test on non-galvanized members is to be conducted. The breaking load F_{Break} must not be lower than 13.75 kN.

The results of the factory production control shall be recorded and evaluated.

The records must contain at least the following information:

- Designation of the scaffolding components
- Type of inspection
- Date of manufacturing and inspection of the scaffolding components
- Result of the production controls and inspections and comparison with requirements
- Signature of the person responsible for the factory production controls.

The records shall be kept for at least five years and shall be made available to the external supervisory body in charge of the external supervision. Upon request, these records must be presented to DIBt and to the competent superior building inspection authority.

If inspection results are unsatisfactory, the manufacturer must immediately take corrective actions. Scaffolding components or components that do not meet the requirements must be handled in such a way that they cannot become confused with conforming parts. After the corrective actions, the inspection/test concerned must be repeated immediately, provided this is technically possible and necessary to prove that the defect has been rectified.

2.3.3 External supervision

In each manufacturer's work, factory production controls shall be supervised by an external supervision body on a regular basis, at least every 5 years for scaffolding components in accordance with table 1.

External supervision includes an inspection of the factory and the factory production control system, including a product inspection. Sampling and inspections/tests shall be the responsibility of the recognised body.

At least the following inspections/tests are to be carried out:

- Inspection of the requirements in terms of personnel and equipment for proper manufacturing of the scaffolding components
- Inspection of the factory production control system
- Checks on random samples for conformity of scaffolding components with the provisions of the approval in terms of
- Construction type, form and dimensions
- Corrosion protection
- Marking
- Inspection of the required certificates of suitability (welding)
- For the pressed tube connectors according to annex A, pages 178 and 179, at least 5 pressed-in tube connector tests are to be carried out in accordance with the provisions of Section 2.3.2 per inspection.

The scaffolding components shall be taken from current production.

The results of the certification and external supervision shall be kept for at least five years. Upon request, they must be presented to DIBt and to the competent superior building inspection authority by the certification body and/or supervisory body.

3 Provisions for planning, dimensioning and execution

3.1 Planning

3.1.1 General provisions

The Technical Building Regulations, in particular the regulations of the DIN EN 12811-1:2004-03 in connection with the "Application guideline for working scaffolds according to DIN EN 12811-1"¹ as well as the "Approval Principles for working and service scaffolds, requirements, calculation conditions, tests and proof of conformity"², DIN 4420-1:2004-03 as well as the rules stated below shall apply for the planning of working and service scaffolds using components of the "ALBLITZ 100 S" scaffolding system.

The scaffolds shall be planned in accordance with engineering standards. Verifiable calculations shall be made in accordance with the technical regulations and the construction drawings.

The "ALBLITZ 100S" scaffolding system consists of scaffolding components in accordance with section 1.

² To be obtained from the Deutsches Institut für Bautechnik.

Table 3: Additional scaffolding components for use in the "ALBLITZ 100 S scaffolding system"

Designation	Annex A, page	Detailed view / components in accordance with Annex A, page	Regulations for manufacturing, marking and certificate of conformity
Foot plate	2	---	according to Z-8.1-16.2
Base jack 60	3	---	
Base jack 80, reinforced	4	---	
Base jack 60 with swivel base, reinforced	5	---	
Base jack 150, reinforced	6	---	
Base jack 40	7	---	
Wedged swivel coupler with spindle	8	---	
Locking pin red Ø11 mm	9	---	
Locking pin Ø9 mm	10	---	
Lightweight assembly frame 2.00 x 1.09 m, steel	11	21, 22, 25	according to Z-8.1-840
Lightweight assembly frame 1.50 - 1.00 – 0.66 x 1.09 m, steel	12	21, 22, 25	
Assembly frame 2.00 x 1.09 m, steel	13	21, 24, 25	
Assembly frame 1.50 - 1.00 – 0.66 x 1.09 m, steel	14	21, 24, 25	
Assembly frame 2.00 x 1.09 m, steel (discontinued design)	15	21, 24, 25	
Assembly frame 1.50 – 1.00 – 0.66 x 1.09 m, steel (discontinued design)	16	21, 24, 25	
Lightweight assembly frame 2.00 x 0.73 m, steel	17	21, 22, 23, 25	according to Z-8.1-16.2
Lightweight assembly frame 1.50 – 1.00 – 0.66 x 0.73 m, steel	18	21, 22, 23, 25	
Assembly frame 2.00 x 0.73 m, steel (discontinued design)	19	21, 23, 25	
Assembly frame 1.50 – 1.00 – 0.66 x 0.73 m (discontinued design)	20	21, 23, 25	
Lightweight passage frame 2.20 x 1.50 m	26	21, 22, 25	
Passage frame 2.20 x 1.50 m	27	21, 24, 25	
Locking guardrail wedge housing	28	25	
Gusset plate coupler	29	---	
Guardrail coupler with wedge housing	30	58	
Horizontal strut 1.57 – 3.07 m	31	---	
I-guardrail with turning bolt 1.57 – 3.07 m	32	---	
I-guardrail 1.57 – 3.07 m	33	---	
Guardrail 0.73 – 3.07 m	34	---	
Double guardrail 1.57 – 3.07 m, steel	35	---	
Double guardrail 2.07 – 2.57 m, steel (discontinued design)	36	---	
Single and double guardrail (discontinued design)	37	--	
Aluminium double guardrail 1.57 – 3.07 m	38	---	
End guardrail 1.09 m	39	---	according to Z-8.1-840

Table 3: (continued)

Designation	Annex A, page	Detailed view / components in accordance with Annex A, page	Regulations for manufacturing, marking and certificate of conformity
End guardrail 0.73 m	40	---	according to Z-8.1-16.2
Double end guardrail 1.09 m	41	---	according to Z-8.1-840
Double end guardrail 1.09 m (discontinued design)	42	---	
Double end guardrail 0.73 m	43	---	according to Z-8.1-16.2
Double end guardrail 0.73 m (discontinued design)	44	---	
End guardrails 1.09 m, single and double	45	---	according to Z-8.1-840
Diagonal brace 2.80; 3.20; 3.60 m	46	---	according to Z-8.1-16.2
Diagonal brace for 2.07; 2.57 and 3.07 m (discontinued design)	47	---	
Quick release anchor 0.69 m	48	---	
Scaffold tie 0.38 – 1.75 m	49	---	
Anchor coupler	50	---	
Quick release anchor 0.65 m (discontinued design)	51	---	
Scaffold tie 0.30 – 2.00 m (discontinued design)	52	---	
VARIO lightweight anchor rod	53	---	
VARIO lightweight anchor ledger 1.57 – 3.07 m	54	---	
Telescopic scaffold stabilizer 3.30 – 6.00 m, steel	55	---	
Bracket 0.36 m	56	22, 23	
Bracket 0.36 m (discontinued design)	57	23	
Bracket 0.73 m	58	21, 22, 24	
Bracket 0.73 m – reinforced	59	21, 22, 24	
Bracket 0.22 m without tube connector	60	22, 23	
Bracket 0.36 m without tube connector	61	22, 23	
Kombi bracket 0.36 m	62	22	
Bracket 0.50 m	63	21, 22, 23	
Plug-in bracket 0.22 m; 0.36 m	64	22	
Bracket 0.36 m with swivel base	65	22	
Bracket 0.73 m with swivel base	66	21, 22	
Bracket 1.09 m	67	21, 22, 23	
Deck lift-off prevention 0.36 – 0.73 m	68	---	according to Z-8.1-840
Deck lift-off prevention 1.09 m	69	---	
Universal U-deck lift-off preventer	70	---	according to Z-8.22-939
Diagonal cross brace 1.95 m	71	---	according to Z-8.1-840
Diagonal cross brace 1.77 m	72	---	according to Z-8.1-16.2
Lightweight guardrail post 1.09 m	73	21, 25	according to Z-8.1-840
Lightweight end guardrail post 1.09 m	74	21, 25	

Table 3: (continued)

Designation	Annex A, page	Detailed view / components in accordance with Annex A, page	Regulations for manufacturing, marking and certificate of conformity
Lightweight guardrail post 0.73 m	75	21, 25	according to Z-8.1-16.2
Lightweight end guardrail post 0.73 m	76	21, 25	
Guardrail post, single	77	21, 25	
Protective roof bracket 1.30 m	78	22, 23	
Protective roof support 2.10 m	79	22, 23	
Safety meshguard post 1.09 m	80	25	according to Z-8.1-840
Safety meshguard post 1.09 m (discontinued design)	81	25	according to Z-8.1-16.2
2-pin coupler	82	---	
Safety meshguard post 0.36; 0.50; 0.73 m T15	83	25	
Adapter for safety meshguard post	84	83, 85	
Safety meshguard post 0.36; 0.50; 0.73 m	85	25	
Safety meshguard post 0.73 m (discontinued design)	86	25	according to Z-8.1-16.2
Side safety meshguard 1.57 – 3.07 m	87	---	
Safety meshguard 1.57 – 3.07 m (discontinued design)	88	---	
Toeboard 0.73 – 3.07 m	89	---	
End toeboard 1.09 m	90	---	according to Z-8.1-840
End toeboard 0.36 – 0.73 m	91	---	according to Z-8.1-16.2
Halfcoupler with toeboard pin	92	---	
Storey ladder 7 rungs T19 / T15	93	---	according to Z-8.22-939
Storey ladder 7 rungs	94	---	according to Z-8.1-16.2
Aluminium single ladder for scaffolds with 10; 14, 17; 20 rungs	95	---	
Tube connector 0.19 m	96	---	
Lightweight lattice girder 4.14 m with tube connector	97	---	
Lightweight lattice girder 5.14 m; 6.14 m with tube connector	98	---	
Lattice girder 4.14 m with tube connector	99	---	
Lattice girder 5.14 m; 6.14 m with tube connector	100	---	
Lattice girder coupler	101	---	
U-lattice girder ledger 1.09 m	102	22, 23	according to Z-8.1-840
Lightweight U-transom 1.09 m	103	22	
U-transom 1.09 m	104	24	
U-transom 0.73 m	105	22, 23	according to Z-8.1-16.2
Lightweight U-starter transom 1.09 m	106	22	according to Z-8.1-840
U-starter transom 0.73 m	107	22, 23	according to Z-8.1-16.2
Plug-in U-starter profile 1.09 m	108	22	according to Z-8.1-840
Plug-in U-starter profile 0.73 m	109	22	according to Z-8.1-16.2
U-starter transom for platform stairway	110	22	

Table 3: (continued)

Designation	Annex A, page	Detailed view / components in accordance with Annex A, page	Regulations for manufacturing, marking and certificate of conformity
Stairway post 1.10 m	111	25	according to Z-8.1-16.2
Corner adapter 74 (115)	112	---	
U-distance coupler	113	22	
Aluminium U-platform stairway 2.57; 3.07 x 2.00 x 0.64 m	114	115	
Aluminium U-platform stairway 2.57; 3.07 m (discontinued design)	116	---	
U-Komfort stairway 2.57; 3.07 x 2.00 x 0.64 m	117	---	according to Z-8.22-939
Stair guardrail 2.57; 3.07 m	118	---	according to Z-8.1-16.2
Inner guardrail for stairway	119	---	
Inner guardrail for stairway (discontinued design)	120	---	
Stairway guardrail 1.0 x 0.5 m	121	---	
Keder rail 2000, aluminium	122	---	
Keder rail, aluminium (discontinued design)	123	---	
Rail holder with halfcoupler	124	---	
Keder slotted screw with nut	125	---	
Keder tube brace 2.07 – 3.07 m	126	---	
Lightweight system lattice girder 450, 2.25 – 6.32 m, steel	127	---	
Lattice girder 450 2.00 - 6.00m, steel	128	---	
System-integrated lattice girder 450, 2.25 – 6.32 m, aluminium	129	---	
Aluminium lattice girder 450 2.00 - 8.00 m	130	---	
Aluminium lattice girder 750 2.25 – 7.25 m	131	---	
Aluminium assembly guardrail T19 1.57 / 2.07 m, 2.07 / 3.07 m	132	---	
Assembly post T19	133	---	
Aluminium assembly guardrail 1.57 / 2.07 m; 2.57 / 3.07 m	134	---	
Assembly post T5	135	---	
Aluminium end assembly guardrail	136	---	
Lightweight U-deck 0.73 – 3.07 x 0.32 m, steel; design: spot-welded / hand welded	137	---	
U-deck T4 0.73 – 3.07 x 0.32 m, steel; design: spot-welded / hand welded	138	---	
U-deck 0.73 – 3.07 x 0.32 m, steel; design: spot-welded / hand welded	139	---	

Table 3: (continued)

Designation	Annex A, page	Detailed view / components in accordance with Annex A, page	Regulations for manufacturing, marking and certificate of conformity
U-deck 0.73 – 3.07 x 0.19 m, steel	140	---	according to Z-8.1-16.2
U-trapdoor deck 2.07 x 0.64 m, steel	141	---	
U-trapdoor deck 2.57 x 0.64 m, steel	142	---	
U-robust trapdoor deck 2.07 – 3.07 x 0.61 m	143	---	
U-robust trapdoor deck with ladder 2.57 – 3.07 x 0.61 m	144	---	
Aluminium U-trapdoor deck 1.57 – 3.07 x 0.61 m	145	---	
Aluminium U-trapdoor deck with ladder, 2.57 – 3.07 x 0.61 m	146	---	
U-XTRA-N-trapdoor deck 2.07 – 3.07 x 0.61 m	147	---	
U-XTRA-N-trapdoor deck with ladder, 2.57 – 3.07 x 0.61 m	148	---	
Aluminium U-trapdoor deck 2.07 x 0.61 m, trapdoor offset	149	---	
Aluminium U-trapdoor deck 2.57 - 3.07 x 0.61 m with ladder, trapdoor offset	150	---	
Gap cover 0.73 – 3.07 x 0.32 m, steel	151	---	according to Z-8.22-939
U-gap cover 0.73 – 3.07 m, steel	152	---	according to Z-8.1-16.2
U-Aluminium gap cover 1.09 – 3.07 m	153	---	
U-Aluminium gap cover 0.35; 0.60 m	154	---	
U-gap deck 0.73 – 3.07 m, telescopic	155	---	according to Z-8.22-939
U-deck for compensation bay 0.19; 0.32; 0.61 x 0.50 m	156	---	according to Z-8.1-16.2
U-corner deck, rigid with toeboard, steel	157	---	according to Z-8.1-840
U-deck 0.73 – 3.07 x 0.19 m, steel (discontinued design)	158	---	according to Z-8.1-16.2
U-trapdoor deck 2.07 – 2.57 x 0.64 m, steel (trapdoor opens sideways)	159	---	
U-trapdoor deck 2.57 – 3.07 x 0.64 m, steel	160	---	according to Z-8.1-840
U-trapdoor stackable combi-deck 2.07 - 3.07 x 0.61 m	161	---	according to Z-8.1-16.2
U-trapdoor stackable combi-deck 2.57 - 3.07 x 0.61 m, with ladder	162	---	
U-frame deck 1.57 – 2.57 x 0.50 m, solid wood	163	---	according to Z-8.1-840
U-frame deck 2.57 x 0.52 m, solid wood	164	---	
Deck frame 1.57 – 3.07 x 1.09 m	165	---	
Wooden plank 1.57 – 3.07 x 0.44 m	166	---	

Table 3: (continued)

Designation	Annex A, page	Detailed view / components in accordance with Annex A, page	Regulations for manufacturing, marking and certificate of conformity
Locking plate	167	---	according to Z-8.1-840
Horizontal frame 1.57 – 3.07 x 1.00 m	168	---	
Lightweight EXP-assembly frame 2.00 x 1.09 m, steel	169	21, 22	
EXP-assembly frame 2.00 x 1.09 m, steel	170	21, 24	
EXP-assembly frame 2.00 x 1.09 m (discontinued design)	171	21, 24	
EXP-diagonal brace 2.80; 3.20; 3.60 m	172	---	according to Z-8.1-16.2
EXP guardrail 1.57 – 3.07 m	173	---	according to Z-8.1-840
EXP-double end guardrail 1.09 m	174	---	
EXP-guardrail post 1.09 m	175	21	
EXP-guardrail post, single	176	---	according to Z-8.1-16.2
EXP-end toeboard 1.09 m	177	---	according to Z-8.1-840
TRBS guardrail (compliant with technical regulations for occupational safety) 2.07 m; 2.57 m; 3.07 m, foldable	181	---	according to Z-8.1-862
TRBS guardrail (compliant with technical regulations for occupational safety) 0.73 m; 1.09 m; 1.57 m, rigid	182	---	
TRBS end guardrail (compliant with technical regulations for occupational safety) 0.73 m; 1.09 m	183	---	

3.1.2 Standard system configuration

The use of the scaffold components in facade scaffolding is described in the provisions of a standard system configuration. Proof of structural stability for said fully erected scaffolds in their standard system configuration has been furnished. Assembly configurations of facade scaffolds are considered to be standard system variations when they comply with the provisions of annex B and C. Any assembly configurations that deviate from the standard system configuration shall be assessable and verified in each individual case.

The standard system configuration applies to facade scaffolds with a structural height that does not exceed 24 m, not including the spindle extension length above the ground. In its standard system configuration, the scaffolding system may be used with system width $b = 1.09$ m and in accordance with the bay length with the following load classes in accordance with DIN EN 12811-1:2004-03, and as a protection scaffold and roof edge protection scaffold with a maximum falling height of class 1 (FL1) and as protection scaffold and roof edge protection scaffold with protective walls of class SWD 1 in accordance with DIN 4420-1:2004-03:

- for bay length $\ell \leq 3.07$ m for working scaffolds of load classes ≤ 4 ,
- for bay length $\ell \leq 2.57$ m for working scaffolds of load classes ≤ 5 or
- for bay length $\ell \leq 2.07$ m for working scaffolds of load classes ≤ 6 .

3.1.3 Deviations from the standard system configurations

If assembly configurations deviate from the standard system configurations in accordance with annex B or annex C, proof of structural stability of the scaffoldings shall be provided for each individual configuration or by means of a structural design calculation in accordance with the Technical Building Rules [Technische Baubestimmungen] and the provisions of this decision.

The characteristic values to be used for the stability verification are specified in this decision. Other anchorage patterns are possible and other nettings may be used as scaffold cladding. Any increased stresses / loads (e.g. from higher dead weights and wind loads or from increased live loads) must be tracked in a scaffold up to the anchors and to the ground level. The impact of building hoists or other lifting equipment must also be taken into account if they are not operated independently of the scaffold.

For any assembly configurations of the standard system configuration in accordance with annex B and C, the use of lightweight scaffolding spindles according to DIN 4425:2017-04 or base jacks according to Annex B of DIN EN 12811-1:2004-03 is considered a major deviation for which individual proof of stability must be provided.

3.2 Dimensioning

3.2.1 General provisions

Unless otherwise specified in this decision, particular attention in relation to the design and calculation of scaffolds erected using the scaffold system shall be paid to the Technical Building Regulations, in particular for working and service scaffolds of DIN EN 12811-1:2004-03 in conjunction with the "Application guideline for working scaffolds according to DIN EN 12811-1" ¹, DIN 4420-1:2004-03, and the "Approval principles for working and service scaffolds, requirements, calculation, tests and proof of conformity".^{3 4}

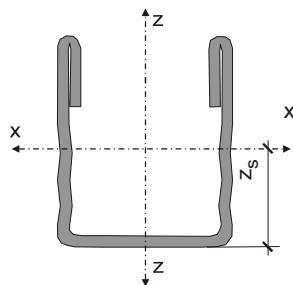
In the event that other configurations are used and it is not clear which component shall be used, any proof of structural stability shall assume the least favourable variant.

3.2.2 Vertical frames

3.2.2.1 U-profiles

3.2.2.1.1 U-profile 60 without holes according to annex A, pages 24 and 180

U-profile 60 without holes according, e.g. as upper transom of the vertical frames according to annex A, pages 178 and 179 shall be verified assuming the characteristic values in accordance with figure 1.



$$\begin{aligned} z_s &= 2.84 \text{ cm} \\ A &= 5.86 \text{ cm}^2 \\ S_x &= 5.41 \text{ cm}^3 \\ I_x &= 24.30 \text{ cm}^4 \\ W_{x,pl} &= 10.80 \text{ cm}^3 \\ W_{x,o} &= 7.69 \text{ cm}^3 \\ W_{x,u} &= 8.58 \text{ cm}^3 \end{aligned}$$

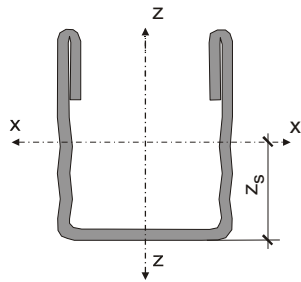
Figure 1: Characteristic values of U-profile 60 without holes

3.2.2.1.2 U-profile 60 with holes according to annex A, pages 24 and 180

U-profile 60 with holes $\square 20 \times 40 \text{ mm}$, e.g. as upper transom of the vertical frames according to annex A, pages 178 and 179 shall be verified assuming the characteristic values in accordance with figure 2.

³ To be obtained from the Deutsches Institut für Bautechnik

⁴ Please also take into consideration the advisory results of the "Scaffold Expert Committee", the so-called "SVA Gerüste", available on the DIBt homepage.

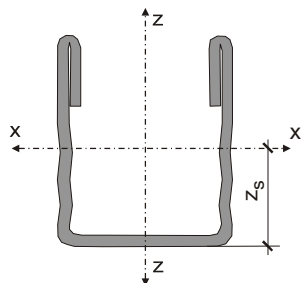


$$\begin{aligned} z_s &= 3.18 \text{ cm} \\ A &= 5.20 \text{ cm}^2 \\ S_x &= 4.41 \text{ cm}^3 \\ I_x &= 19.0 \text{ cm}^4 \\ W_{x,pl} &= 8.73 \text{ cm}^3 \\ W_{x,o} &= 6.72 \text{ cm}^3 \\ W_{x,u} &= 5.97 \text{ cm}^3 \end{aligned}$$

Figure 2: Characteristic values of U-profile 60 with holes □ 20 x 40 mm

3.2.2.1.3 U-profile 53 without holes according to annex A, pages 22 and 23

U-profile 53 without holes according, e.g. as upper transom of the lightweight vertical frames shall be verified assuming the characteristic values in accordance with figure 3.

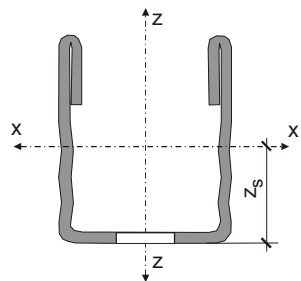


$$\begin{aligned} z_s &= 2.34 \text{ cm} \\ A &= 4.18 \text{ cm}^2 \\ S_x &= 3.50 \text{ cm}^3 \\ I_x &= 14.20 \text{ cm}^4 \\ W_{x,pl} &= 6.99 \text{ cm}^3 \\ W_{x,o} &= 4.80 \text{ cm}^3 \\ W_{x,u} &= 6.08 \text{ cm}^3 \end{aligned}$$

Figure 3: Characteristic values of U-profile 53 without holes

3.2.2.1.4 U-profile 53 with holes according to annex A, pages 22 and 23

U-profile 53 without holes □ 20 x 40, e.g. as upper transom of the lightweight vertical frames shall be verified assuming the characteristic values in accordance with figure 4.



$$\begin{aligned} z_s &= 2.64 \text{ cm} \\ A &= 3.68 \text{ cm}^2 \\ S_x &= 2.90 \text{ cm}^3 \\ I_x &= 11.40 \text{ cm}^4 \\ W_{x,pl} &= 5.80 \text{ cm}^3 \\ W_{x,o} &= 4.30 \text{ cm}^3 \\ W_{x,u} &= 4.33 \text{ cm}^3 \end{aligned}$$

Figure 4: Characteristic values of U-profile 53 with holes

3.2.2.2 Welded connection of the post of the upper transom and vertical frame

For the welded connections of the upper transom with cross section U53 T10 in accordance with annex A, page 22 to the vertical frame post, the load-bearing capacities according to table 4 may be assumed for the frames of Annexes 11, 12 and 169. When verifying the load-bearing capacity of the welded connection, proof of interaction may be carried out in accordance with (equation 1).

For the welded connection of the upper transom with cross section U53 U53 T10 in accordance with annex A, page 25 or U53 in accordance with Annex A, page 26 to the vertical frame post, the load-bearing capacities according to Z-8.1-16.2 may be assumed for the frames of Annex A, pages 17 to 20.

For the welded connection of the upper transom with cross section U60 in accordance with annex A, page 24 for the frames of annex A, pages 13 to 16, 27, 170 and 171 as well as for the welded connection of the U-profile in accordance with annex A, page 180 for the vertical frame AF according to annex A, page 178 and 179, the load-bearing capacities in accordance with table 4 may be assumed. When verifying the load-bearing capacity of the welded connection, proof of interaction may be carried out in accordance with (equation 1).

$$\frac{|M_{Ed}|}{M_{Rd}} + 1.12 \cdot \left(\frac{N_{Ed}}{N_{Rd}}\right)^2 - k \cdot \left(\frac{N_{Ed}}{N_{Rd}}\right) \leq 1.0 \quad \text{with} \quad \begin{array}{ll} k = + 0.12 & \text{for positive moments} \\ k = - 0.12 & \text{for negative moments} \end{array}$$

within the following scope:

$$-0.50 \leq \frac{N_{Ed}}{N_{Rd}} \leq 0.50$$

and

$$-\frac{1}{3} \leq \frac{V_{z,Ed}}{V_{z,Rd}} \leq \frac{1}{3}$$

Table 4: Load-bearing capacities of the connections of the U-ledgers to the vertical frame posts

Provisions for execution	Annex A, page	N_{Rd} [kN]	$M_{y,Rd}$ [kNcm]	$V_{z,Rd}$ [kN]
U-profile 53 T10	22	109	165	106
U-profile 60	24 or 180	86.2	146	62.2

3.2.2.3 Corner plate transom - vertical frame post

Proof of structural stability of the scaffold system may be provided assuming that the “gusset plate, lightweight” at the connection of the transom and the vertical frame post of the vertical frames is an equivalent linear member with a nominally pinned connection on both sides with the reduced cross section area (A^*) according to figure 5.

For the corner plate according to annex A, page 180 of the vertical frame AF in accordance with Annex A, page 178 and 179, and for the “gusset plate 170” of the assembly frames (A^*) may be assumed in relation to $A^* = 0.49 \text{ cm}^2$.

If it is not possible to ensure that only vertical frames with a gusset plate shall be used in a scaffold or that their effect on the structural stability is taken into account by means of detailed calculation and design documents, the smaller reduced cross sectional area (A) of the lightweight gusset plate in accordance with figure 5 shall be used for the proof of structural stability of this scaffold.

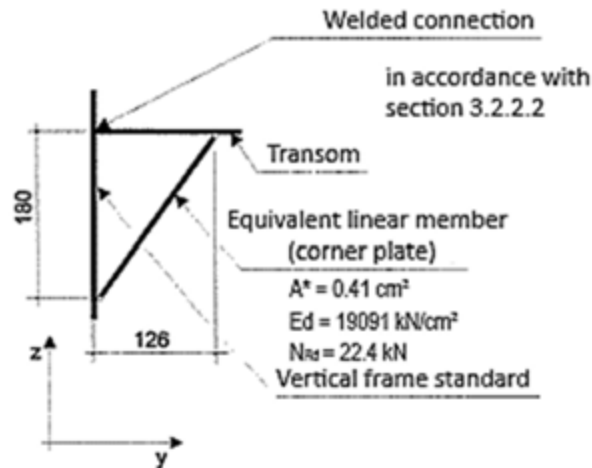


Figure 5: Characteristic values for the connection of the transom and the vertical frame post to the lightweight gusset plate

3.2.2.4 Connection of the lower transom to the upright tube

Proof of structural stability of the scaffold system may be furnished taking into account the connection of the lower transom to the upright tube of the vertical frames with a rotational restraint and a load-bearing capacity according to table 5. Please note that the connection is related to the outer face of the upright tubes.

Table 5: Characteristic values of the connection lower transom / upright tube

Component	Load-bearing capacity $M_{y,Rd}$ [kNcm]	Rotation ϕ_d [rad]
Assembly frame, steel in accordance with annex A, pages 11 to 20	47.0	$\phi_d = \frac{M_{y,Ed}}{9250 - 131 \cdot M_{y,Ed} }$ $M_{y,Ed} \text{ in [kNcm]}$
EXP-assembly frame, steel in accordance with annex A, pages 169 to 171		
Vertical frame AF in accordance with annex A, pages 178 and 179		

3.2.2.5 Standard joints

Unless not otherwise specified below, the joints of the standards in the ALBLITZ 100 S frame scaffold are always to be constructed and proof of structural stability is to be provided in accordance with the current Technical Building Rules. Please also refer to the "Calculation of standard connections with one-sided, centrally fixed pins for working and service scaffolds, and for falsework made of steel"⁵.

If it is not certain which type of tube connectors are used, the verification of structural stability shall be based upon the least favourable assumptions.

A tension stress resistance of $N_{z,Rd} = 10.0 \text{ kN}$ may be assumed for the pressed tube connectors of the standards according to annex A, pages 178 and 179 and the indented tube connectors according to annex A, page 21.

The compressed tube connectors according to annex A, page 21 may be used in accordance with Z-8.1-16.2.

If required, the verification of a pin-like connector for tension coupling must be provided separately. When using a pin of at least Ø12-8.8, a separate verification in case of pressed / indented tube connectors is not mandatory.

3.2.3 Vertical diagonal braces

For the proof of structural stability of the scaffolding system, the vertical diagonal braces according to annex A, pages 46, 47 and 172 in connection with the joint stiffness values given in table 8 shall be taken into consideration. The stiffness values given therein only include the contributions from the upper push-in joints and the lower coupler connection, the stiffness of the diagonal brace tube must additionally be considered. When connecting EXP vertical diagonal braces according to annex A, page 172 at the tilting pin, a clearance of $\pm 1.8 \text{ mm}$ must additionally be considered.

The joint eccentricities between the connection of the vertical diagonal braces and the centroidal axis of the decks are to be considered with the following values:

- Plug connection (top): $e_{\text{connection}} = 80 \text{ mm}$
- Swivel coupler connection (bottom): $e_{\text{connection}} = 160 \text{ mm}$

For the vertical diagonal braces, proof shall be provided that the loads shall not exceed the load-bearing capacities. For the diagonal braces according to annex A, these load-bearing capacities are listed in Table 6. The load-bearing capacities apply to the vertical diagonal braces including the plug connection and the coupler connection. For the EXP-diagonal braces according to annex A, page 172, the design value for the load-bearing capacity of the tilting pin for a connection of one or plural diagonal braces is $F_{KS,Rd} = 5.45 \text{ kN}$.

5

See DIBt Newsletter 4/2017.

Table 6: Load-bearing capacity and stiffness of the vertical diagonal braces

Scaffold bay length	Load	Stiffness $c_{D,d}$	Load-bearing capacity $F_{ ,Rd}$
$\ell = 3.07 \text{ m}$	Tension	11.55 kN/cm	7.73 kN
	Compression	14.73 kN/cm	5.76 kN
$\ell = 2.57 \text{ m}$	Tension	16.73 kN/cm	7.73 kN
	Compression	32.0 kN/cm	7.09 kN
$\ell = 2.07 \text{ m}$	Tension	21.09 kN/cm	7.73 kN
	Compression	37.0 kN/cm	7.73 kN

3.2.4 Vertical load-bearing capacity of decks

The decks of the "ALBLITZ 100 S" scaffolding system are verified in accordance with table 7 for live loads of the scaffold load classes / service classes according to EN 12811-1:2004-03, Table 3 and for use in protection scaffold and roof edge protection scaffolds with fall heights of up to 2 m (top fall arresting layer of class FL 1) according to DIN 4420-1:2004-03 (class D according to DIN EN 12810-1:2004-03) in accordance with Table 7.

Table 7: Assignment of decks to load classes (service classes)

Designation	Annex A, page	Bay length ℓ [m]	Use in load classes (service classes)	Use in protection scaffold and roof edge protection scaffold
Lightweight U-deck 0.32 m, steel	137	≤ 2.07	≤ 6	allowed
U-deck T4 0.32 m, steel	138	2.57	≤ 5	
U-deck 0.32 m, steel	139	3.07	≤ 4	
U-deck 0.19 m, steel	140, 158	≤ 2.07	≤ 6	
		2.57	≤ 5	
		3.07	≤ 4	
U-trapdoor deck 0.64 m, steel	141	2.07	≤ 4	
	142	2.57		
U-robust trapdoor deck 0.61 m	143, 144	≤ 3.07	≤ 3	
Aluminium U-trapdoor deck 0.61 m	145, 146, 149, 150			
U-XTRA-N-trapdoor deck 0.61 m	147, 148			
U-gap deck, telescopic	155	≤ 2.07	≤ 6	
		2.57	≤ 5	
		3.07	≤ 4	
U-trapdoor deck 0.64 m, steel	159	≤ 2.57	≤ 4	
U-trapdoor deck 0.64 m, steel	160	≤ 3.07	≤ 4	not allowed
U-trapdoor stackable combi-deck 0.61 m	161, 162	≤ 3.07	≤ 3	allowed
U frame deck, solid wood	163, 164	≤ 2.57	≤ 4	not allowed
Deck frame 1.09 m	165	1.57	≤ 6	allowed
		2.07; 2.57	≤ 5	
		3.07	≤ 4	
Horizontal frame	168	≤ 3.07	≤ 4	

3.2.5 Elastic support of the vertical frame sections

Non-anchored nodes of vertical frame sections on the frame level (in case of facade scaffolding perpendicular to the facade) may be assumed to be elastically supported by the horizontal level (decking), provided that the neighbouring horizontal nodes are anchored. Said elastic support may be considered by assuming a bilinear or trilinear travel spring according to figures 6 and 7 with the characteristic values of table 8 for the load classes according to table 7.

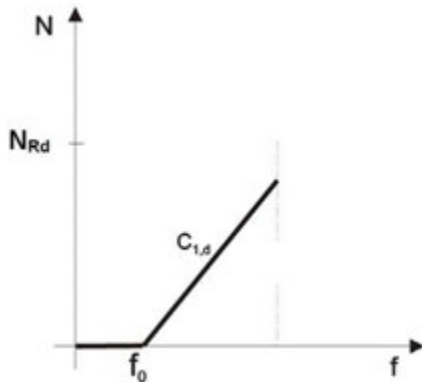


Figure 6: Bilinear spring characteristics

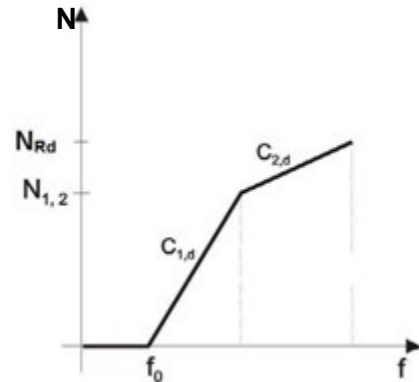


Figure 7: Trilinear spring characteristics

Table 8: Design values of the horizontal travel springs

Deck	Annex A, page	Bay width [m]	Clearance $f_{L,0}$ [cm]	Stiffness [kN/cm]		$N_{L,1,2}$ [kN]	Load-bearing capacity of the spring load $N_{L,Rd}$ [kN]
				$C_{1,d}$	$C_{2,d}$		
U-deck 0.32 m, steel	137, 138, 139	$\ell \leq 2.07$	3.4	1.90	---	---	4.45
		$\ell = 2.57$	4.2	1.50	---	---	
		$\ell = 3.07$	5.0	1.20	---	---	
U-deck 0.19 m, steel	140, 158	$\ell \leq 2.07$	3.9	2.56	---	---	5.55
		$\ell = 2.57$	4.8	1.66	---	---	
		$\ell = 3.07$	5.8	1.16	0.32	4.82	
U-trapdoor deck 0.64 m, steel	141, 142, 159	$\ell = 2.07$	2.8	2.79	---	---	4.00
		$\ell = 2.57$	3.1	1.81	---	---	
Deck frame 1.09 m	165	$\ell \leq 2.07$	1.0	0.90	0.21	2.64	3.73
		$\ell = 2.57$	1.0	0.56	0.29	3.09	4.45
		$\ell = 3.07$	1.1	0.38	0.20	2.55	3.64

3.2.6 Elastic coupling of the vertical levels

The inner and outer vertical level of a scaffolding may be assumed to be elastically coupled to each other by the decking in the direction of these levels (in the case of facade scaffolding parallel to the facade). Said elastic coupling may be considered by assuming bilinear or trilinear coupling springs according to figures 6 and 7 with the characteristic values of table 9 for the load classes according to table 7. The values given in table 9 apply to bay lengths of up to $\ell = 3.07$ m.

Table 9: Design values of the horizontal coupling springs per scaffold bay

Deck	Annex A, page	Clearance $f_{l,o}$ [cm]	Stiffness [kN/cm]		$N_{l,1.2}$ [kN]	Load-bearing capacity of the spring load $N_{l,Rd}$ [kN]
			$c_{1 ,d}$	$c_{2 ,d}$		
U-deck 0.32 m, steel	142, 143, 144	1.6	1.70	1.2	5.10	6.50
U-deck 0.19 m, steel	145, 163	2.0	2.07	---	---	5.91
Deck frame 1.09 m	170	0.3	1.20	0.48	4.64	6.09

3.2.7 Material parameters

For components made of S235JRH steel with an increased yield point ($R_{eH} \geq 320 \text{ N/mm}^2$) - any such components are marked accordingly in the drawings of Annex A - the design value of the yield point $f_{y,d} = 291 \text{ N/mm}^2$ may be used for the calculation.

3.2.8 Tubes Ø48.3 mm made from S460MH

Scaffold tubes $\text{Ø}48.3 \times 2.9 \text{ mm}$ and $\text{Ø}48.3 \times 2.7 \text{ mm}$ made from steel material S460MH in accordance with Z-8.1-16.2 or Z-8.1-840 may be assigned to buckling curve "a".

For the proof of structural stability, the plastic shape coefficient shall be limited to $\alpha_{pl} = 1.25$. If for the tubes $\text{Ø}48.3 \text{ mm}$ made from S460MH steel material a calculation according to the second order theory of elasticity is carried out, the following value may be assumed as the design value of the initial curvature:

$$v_0 = \frac{\ell}{300} \quad (\text{Eq. 2})$$

The cosine interaction may be used to provide proof of interaction pressure with bending.

3.2.9 Scaffolding spindles / base jacks

The substitute section properties for the base jacks for the stress and / or interaction analyses and calculations of deformation according to DIN 4425:2017-04 (Annex B of DIN EN 12811-1:2004-03) shall be assumed as follows:

- Scaffolding spindles (base jacks) according to annex A, pages 3 and 7 (base jack 0.60 m and 0.40 m):

$$\begin{aligned} A = A_s &= 3.84 \text{ cm}^2 \\ I &= 3.74 \text{ cm}^4 \\ W_{el} &= 2.61 \text{ cm}^3 \\ W_{pl} &= 1.25 \cdot 2.61 = 3.26 \text{ cm}^3 \end{aligned}$$

- Scaffolding spindles (base jacks) according to annex A, pages 4, 5 and 6 (reinforced base jack 0.80 m, reinforced swivel base jack 0.60 m and base jack 1.50 m):

$$\begin{aligned} A = A_s &= 4.71 \text{ cm}^2 \\ I &= 4.29 \text{ cm}^4 \\ W_{el} &= 2.97 \text{ cm}^3 \\ W_{pl} &= 1.25 \cdot 2.97 = 3.71 \text{ cm}^3 \end{aligned}$$

The cosine interaction in accordance with DIN 4425:2017-04, section 7.1 may be used to provide proof of stability of the load-bearing capacity of the scaffolding spindles / base jacks.

3.2.10 Couplers

For the proof of stability of the halfcouplers attached to different components, the load-bearing capacities and stiffness values for halfcouplers shall be applied in accordance National Technical Approval Z-8.331-882.

Notwithstanding these provisions, the values of the class A swivel couplers with wedge-lock in accordance with DIN EN 74-1:2005-12 may be used for wedged swivel couplers with spindle.

For the riveted halfcouplers of the components in accordance with annex A, pages 42, 44 to 47, 71 to 72, 78, and 79 the following isotropic load-bearing capacities of the riveted joints may be assumed when the couplers are connected to steel or aluminium tubes:

Coupler with screw top: $F_{Rd} = 13.6 \text{ kN}$

Coupler with wedge-lock: $F_{Rd} = 9.1 \text{ kN}$

3.3 Provisions for execution

3.3.1 General provisions

The Technical Building Regulations, in particular the regulations of the DIN EN 12811-1:2004-03 in connection with the "Application guideline for working scaffolds according to DIN EN 12811-1"¹ as well as the "Approval Principles for working and service scaffolds, requirements, calculation conditions, tests and proof of conformity"² DIN 4420-1:2004-03 as well as the rules stated below shall apply for the erection of scaffolds using components of the "ALBLITZ 100 S" scaffolding system¹.

Assembly, alteration and dismantling of the scaffold must be carried out in compliance with the "Instructions for Assembly and Use"⁶ which are not subject of this decision.

3.3.2 Condition of components

All components shall be inspected for proper condition prior to assembly. Damaged components may not be used.

Tilting pins of EXP-components at the connections of the diagonal braces and guardrails shall lock automatically.

3.3.3 Structural design

3.3.3.1 General provisions

Deviating from section 1, components that are marked according to the provisions of previous approval decisions may also be used.

3.3.3.2 Base area

The lower vertical frames must be placed on base plates according to annex A, page 2 or base jacks and aligned in such a way that the working areas are horizontal. It must be ensured that the base plates according to annex A, page 2 or the end base plates of the base jacks are horizontal and supported over the entire area to absorb and transmit the forces resulting from the scaffold in the supporting surface.

3.3.3.3 Height equalisation

For height equalisation, the vertical frames / assembly frames 1.50 m, 1.00 m and 0.66 m can be used as equalisation frames. Do not work on scaffolding levels directly below these frames.

3.3.3.4 Scaffold decks

Scaffold decks must be secured to prevent them from accidental lift-off.

⁶

The Instructions for Assembly and Use must comply with the requirements of the "Application guideline for working scaffolds according to DIN EN 12811-1", see DIBt-Mitteilungen (notifications of the DIBt) issue 2/2006.

3.3.3.5 Side protection

The provisions of DIN EN 12811-1:2004-03 apply to the side protection. Primarily use components intended for this use and only exceptionally use components such as steel tubes and couplers according to DIN EN 12811-1:2004-03 as well as scaffold decks and planks according to DIN 4420-1:2004-03.

When connecting different guardrail configurations, the wedges of the guardrail housings must be connected to the standards by driving the wedge into its housing to the end-stop with a 0.5 kg hammer (or heavier).

When using these guardrails consistently install I-guardrails in accordance with Z-8.1-16.2 or TRBS-guardrails in accordance with Z-8.1-862 according to the working level.

During assembly, secure the last TRBS-guardrail on the left (looking at the scaffold) on the topmost working level against uplifting forces by means of an additional scaffold coupler. Keep the additional security in place until the security of the TRBS-guardrail in this respectively leftmost scaffold bay has been secured against uplifting by means of an assembly frame that is installed in the level above ⁷.

3.3.3.6 Bracing

Scaffolds must be braced.

For facade scaffolding, the outer vertical level is to be braced in parallel to the facade by means of diagonal braces fitted one above another or spaced along the scaffolding. The number of diagonal braces depends on the structural analysis. However, do not allocate more than 5 scaffolding bays to one diagonal brace. Longitudinal ledgers shall be fitted at least in the bays to which a diagonal brace is connected at the height of the base jacks.

Horizontal levels (working levels) shall be braced using decks according to section 3.2.5 or 3.2.6 or by means of tubes and couplers.

3.3.3.7 Anchoring

Please refer to the structural analysis for anchor forces and the anchorage pattern.

The anchorage of scaffold ties to the facade or to other parts of the building is not covered by this approval. The user shall ensure that the respective forces can be securely absorbed and dispersed from scaffold ties. Vertical forces must not be transferred in this process.

3.3.3.8 Couplers

Couplers with screwed connectors must be tightened with a torque of 50 Nm when connecting to the standards; tolerances of ± 10 % are permitted. According to the manufacturer's instructions for use, pins/screws must be easy to reposition.

When connecting wedge-lock couplers to the standards, they must be connected by driving the wedge to the end-stop with a 0.5 kg hammer (or heavier).

3.3.3.9 Lift-off preventer against uplifting forces

To secure against uplifting forces in accordance with the structural analysis, the standard joints shall be fitted in accordance with the Instructions for Assembly and Use or in accordance with a structural analysis.

Lift-off preventers in accordance with annex A, pages 68 and 69, guardrail posts in accordance with annex A, pages 73 to 77, 175 and 176, the protective net posts in accordance with annex A, pages 80, 81, 83, 85 and 86, the adapter for protective net posts in accordance with annex A, page 84, the tube connector 0.19 m, and the gap cover in accordance with annex A, page 151 must be secured in accordance with the provisions of annex A.

⁷

Please also refer to the Instructions for Assembly and Use of the manufacturer.

3.3.4 Attestation of conformity

The building contractor shall submit a declaration of conformity in accordance with §§ 16 a (5) in conjunction with 21 (2) Model Building Regulation (MBO) in order to confirm the conformity of the erected working and service scaffold with the General Construction Technique Permit (aBG) covered by this decision.

4 Provisions for use, maintenance and inspection

4.1 General provisions

The use of the scaffold is not covered by this decision.

Undamaged components may be reused. All components shall be inspected optically for proper condition prior to assembly. Damage may be caused by mechanical action or through corrosion.


Maintain and check all components as prescribed in the product manual of the manufacturer.

4.2 Wooden scaffolding components

In order to prevent damage caused by moisture to wooden scaffolding components, they must be stored in a dry place, off the ground, and providing adequate ventilation.

Head of Division

Attested

<div><div><div><div><div><div>□□□</div><div>Layher. </div><div>LAYHER®</div><div>LY</div></div><div>Upstream supplier</div><div>Registered lettering</div><div>Registered trademark</div><div>see table below for respective month indication or calendar day (3 digit) see separate table for respective year</div></div><div><div><div>A</div><div>01</div><div>Ü</div></div><div>Mark of conformity</div><div>Approval number</div></div></div><div>Z-8.1-840 Scaffold system "Layher Speedyscaf 100, steel" 840 abbreviated approval number</div></div></div>	
Frame scaffold ALBLITZ 100 S	Annex A, page 1
Product marking code key in accordance with Z-8.1-840	
ABS116-A154_AB1	

Month code:

A = January
B = February
C = March
D = April
E = May
F = June

Year code:

01 = 1989
02 = 1990
03 = 1991
.. = ...
12 = 2000
13 = 2001

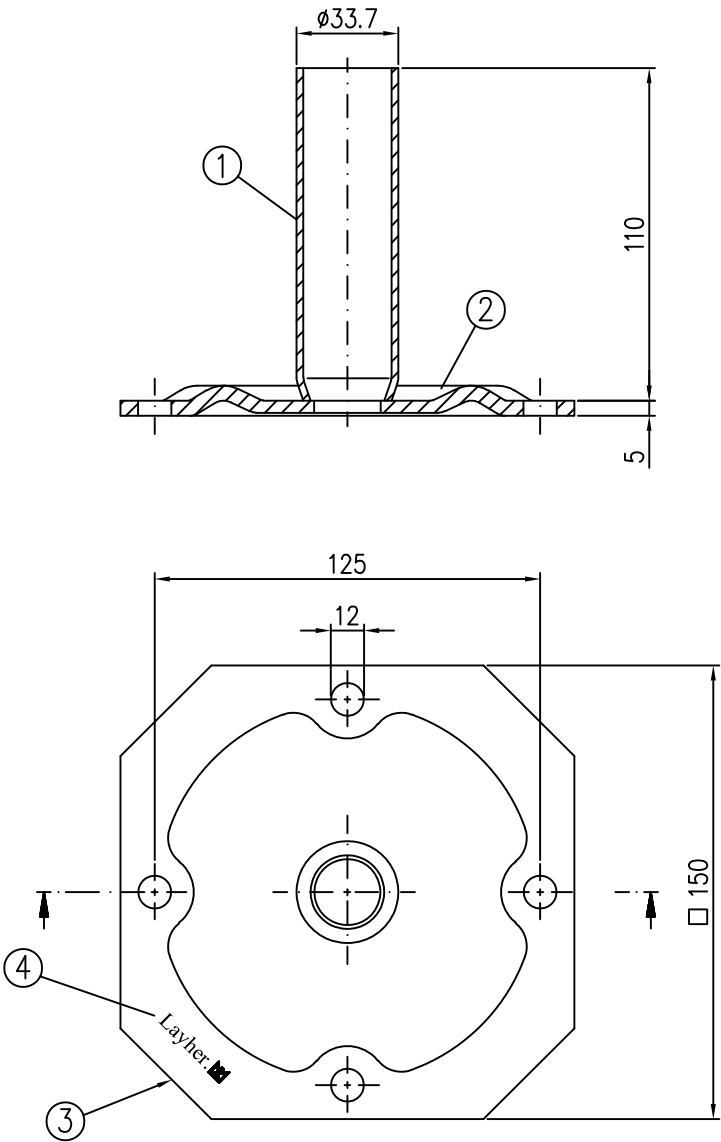
Month code:

G = July
H = August
K = September
L = October
M = November
N = December

Year code:

14 = 2002
15 = 2016
.. = ...
25 = 2013
26 = 2014
27 = 2015

34 = 2022
35 = 2023
36 = 2024
37 = 2025
.. = ...
99 = 2087

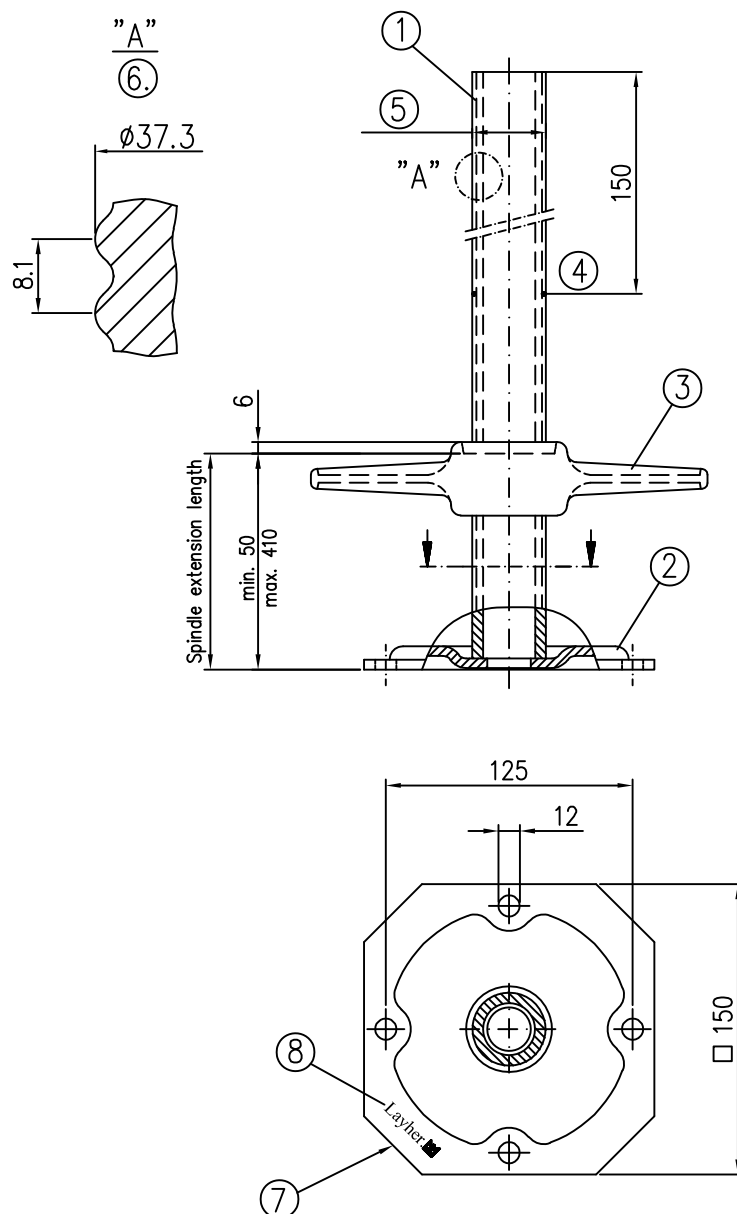


- ① Tube
- ② Foot plate
- ③ Foot plate in accordance with EN 74-3
- ④ Marking

Weight [kg]
1.0

Frame scaffold ALBLITZ 100 S	Annex A, page 2
Foot plate in accordance with Z-8.1-16.2	
ABS710-A001_AB1	

12.2021



- ① Tube
- ② Foot plate
- ③ Spindle nut
- ④ Thread with notches to limit collar nut travel
- ⑤ Special thread $\varnothing 38 \times 8.1$ see detailed view
- ⑥ Special thread
- ⑦ Foot plate in accordance with EN 74-3
- ⑧ Marking

Weight [kg]
3.6

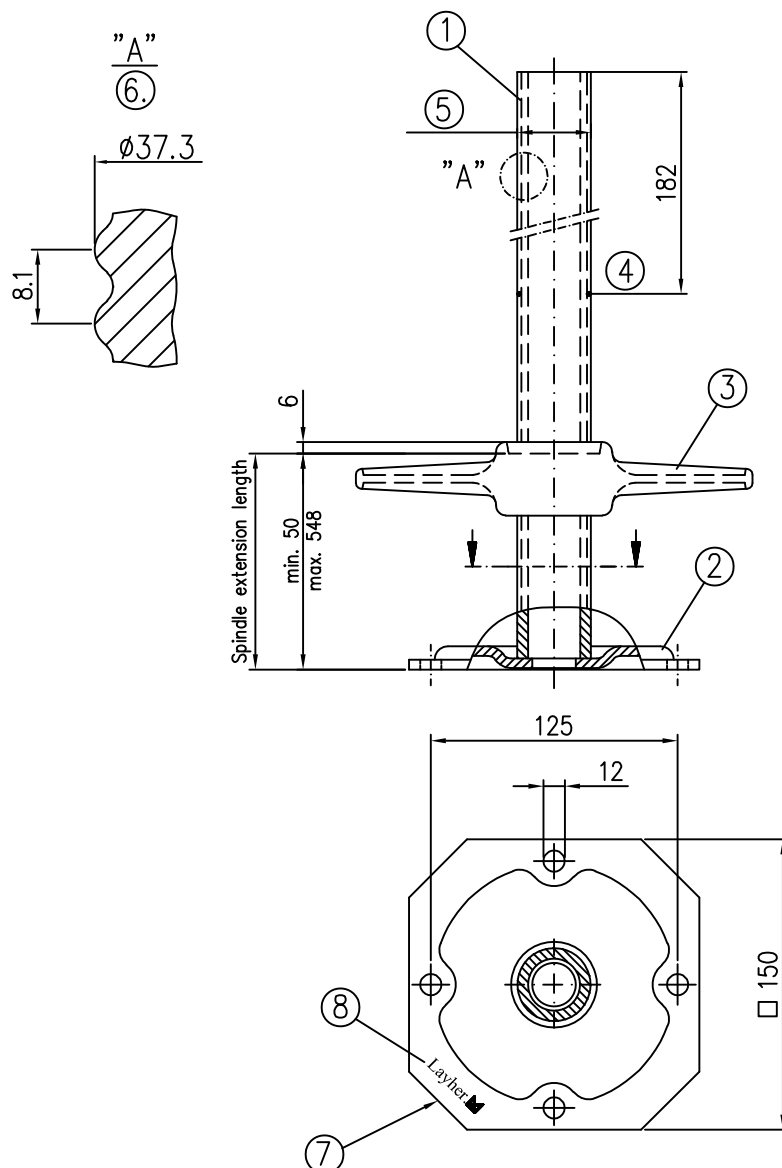
Frame scaffold ALBLITZ 100 S

Base jack 60
in accordance with Z-8.1-16.2

ABS710-A002_AB1

12.2021

Annex A,
page 3



- ① Tube
- ② Foot plate
- ③ Spindle nut
- ④ Thread with notches to limit collar nut travel
- ⑤ Special thread $\varnothing 38 \times 8.1$ see detailed view
- ⑥ Special thread
- ⑦ Foot plate in accordance with EN 74-3
- ⑧ Marking

Weight [kg]
4.9

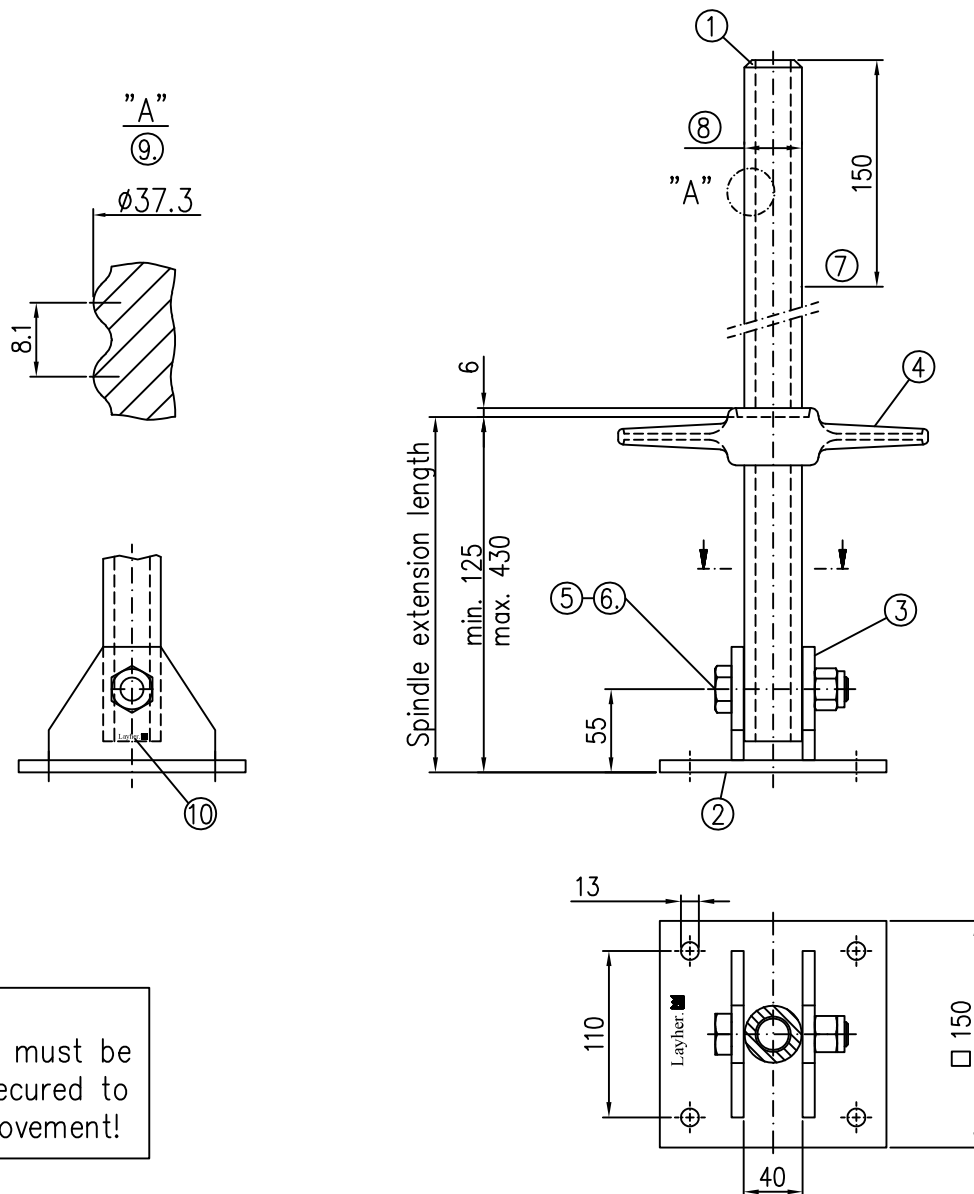
Frame scaffold ALBLITZ 100 S

Base jack 80, reinforced
in accordance with Z-8.1-16.2

ABS710-A003_AB1

12.2021

Annex A,
page 4



Caution:
Foot plate must be
properly secured to
prevent movement!

- ① Tube
- ② Foot plate
- ③ Web plate
- ④ Spindle nut
- ⑤ Hexagon bolt
- ⑥ Locking nut
- ⑦ Thread with notches to limit collar nut travel
- ⑧ Special thread $\varnothing 38 \times 8.1$ see detailed view
- ⑨ Special thread
- ⑩ Marking

Weight [kg]
6.1

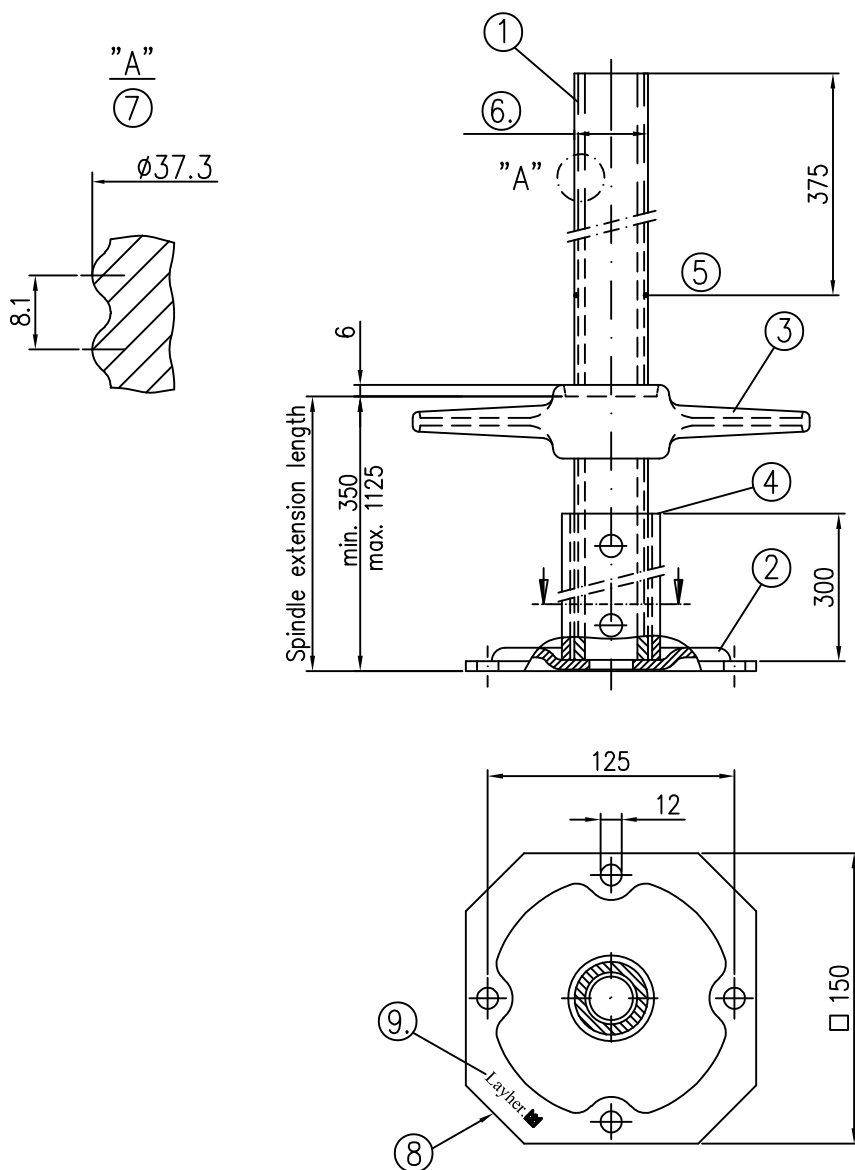
Frame scaffold ALBLITZ 100 S

Base jack 60 with swivel base, reinforced
in accordance with Z-8.1-16.2

ABS710-A004_AB1

12.2021

Annex A,
page 5



- ① Tube
- ② Foot plate
- ③ Spindle nut
- ④ Tube
- ⑤ Thread with notches to limit collar nut travel
- ⑥ Special thread $\varnothing 38 \times 8.1$ see detailed view
- ⑦ Special thread
- ⑧ Foot plate in accordance with EN 74-3
- ⑨ Marking

Weight [kg]
10.0

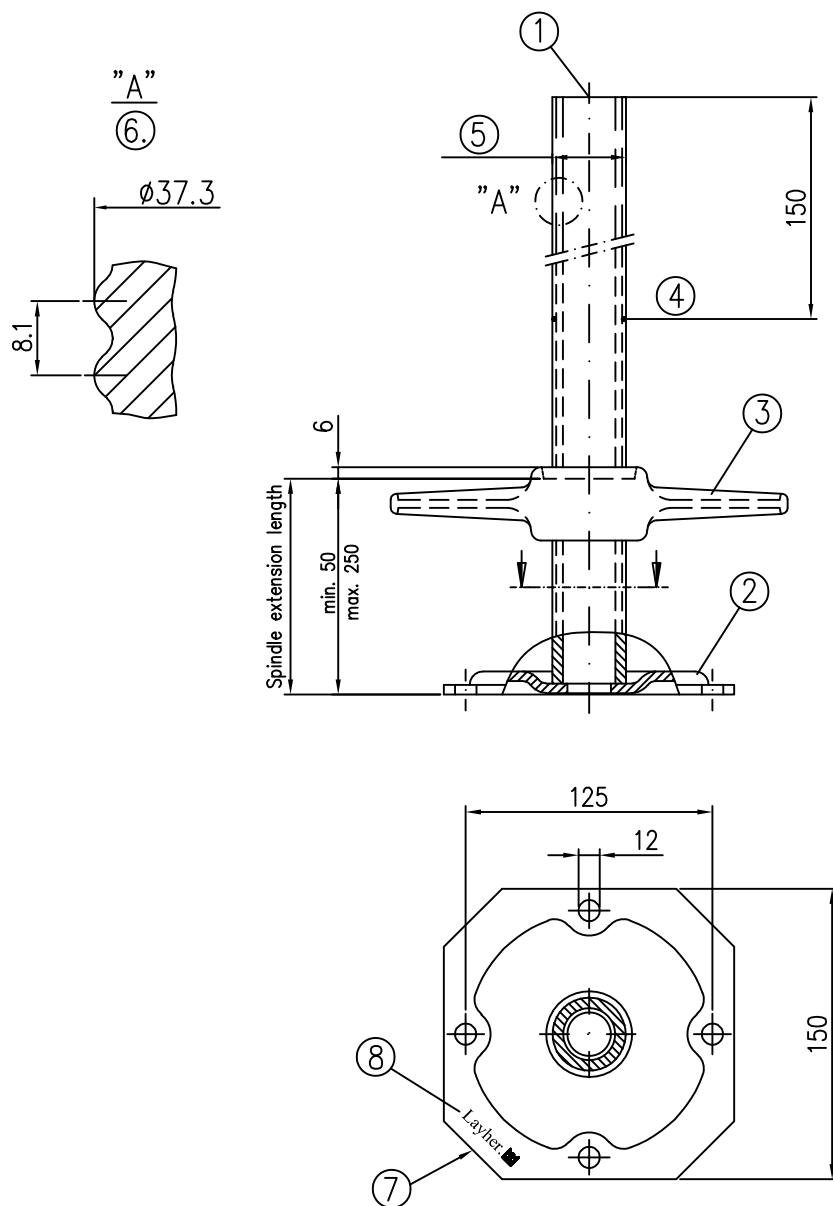
Frame scaffold ALBLITZ 100 S

Base jack 150, reinforced
in accordance with Z-8.1-16.2

ABS710-A005_AB1

12.2021

Annex A,
page 6



- ① Tube
- ② Foot plate
- ③ Spindle nut
- ④ Thread with notches to limit collar nut travel
- ⑤ Special thread $\varnothing 38 \times 8.1$ see detailed view
- ⑥ Special thread
- ⑦ Foot plate in accordance with EN 74-3
- ⑧ Marking

Weight [kg]
2.9

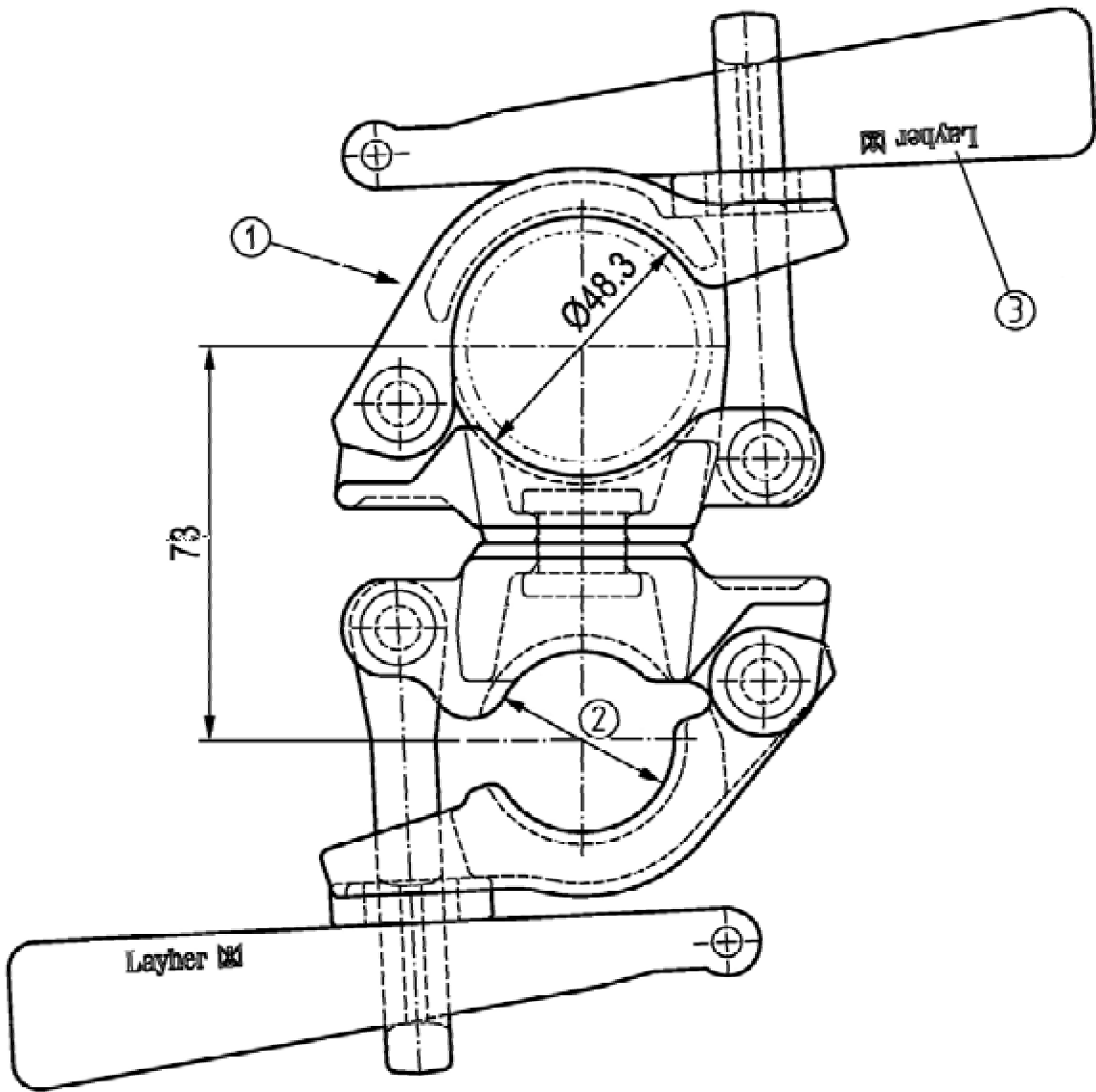
Frame scaffold ALBLITZ 100 S

Base jack 40
in accordance with Z-8.1-16.2

ABS710-A006_AB1

12.2021

Annex A,
page 7

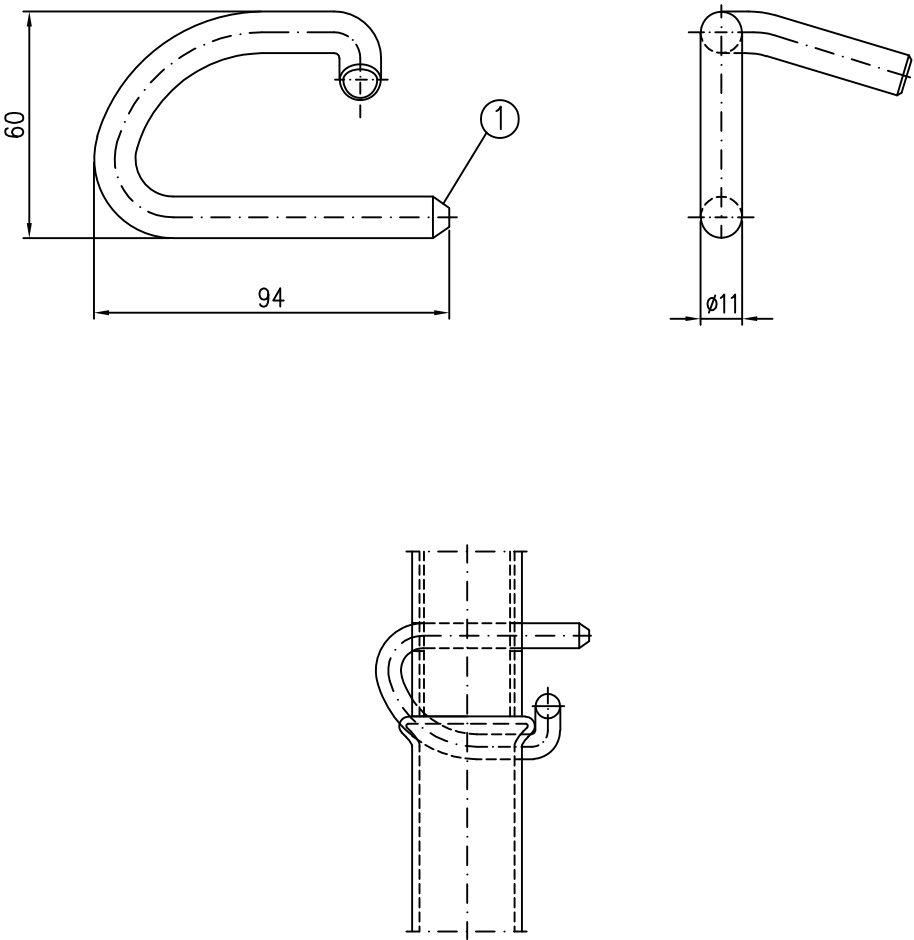


- ① Swivel coupler with wedge-lock Class A, EN 74-1
- ② Round 37x8.1
- ③ Marking

Weight [kg]
1.8

Frame scaffold ALBLITZ 100 S	Annex A, page 8
Wedged swivel coupler with spindle in accordance with Z-8.1-16.2 ABS710-A008_AB1 12.2021	

12.2021



① Locking pin

Weight [kg]
0.2

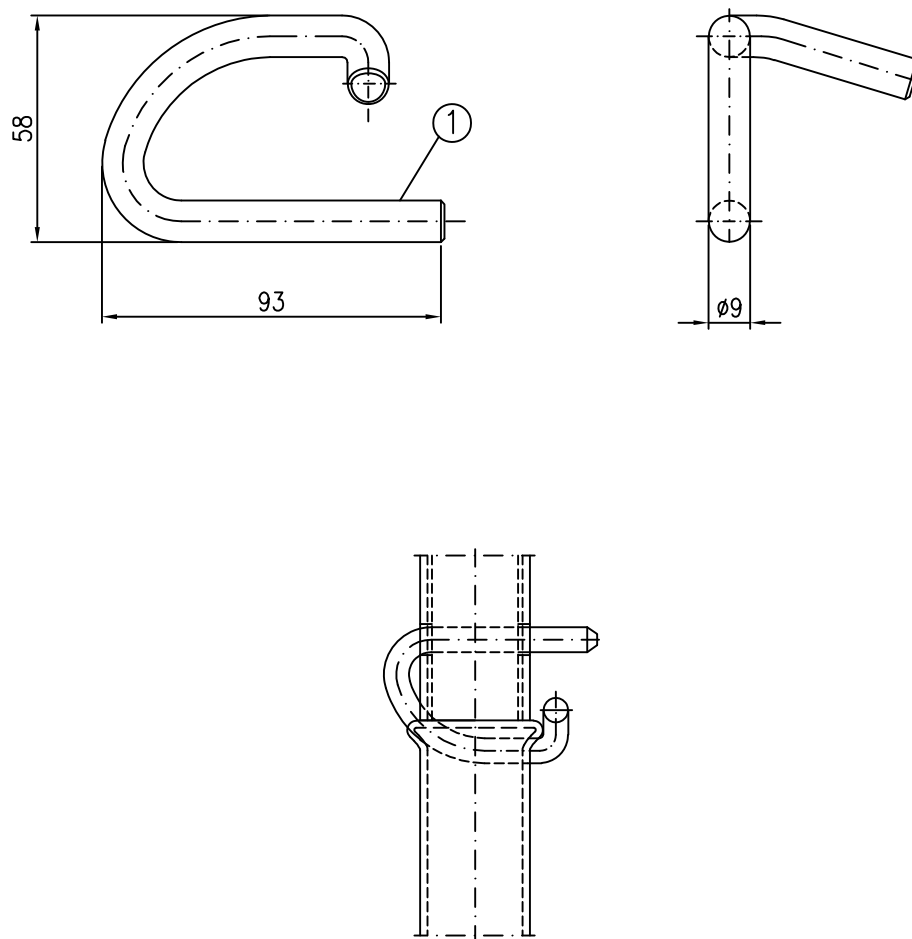
Frame scaffold ALBLITZ 100 S

Locking pin red Ø11 mm
in accordance with Z-8.1-16.2

ABS710-A009_AB1

12.2021

Annex A,
page 9



① Locking pin

Only for continued use—
 no longer manufactured

Weight [kg]
0.1

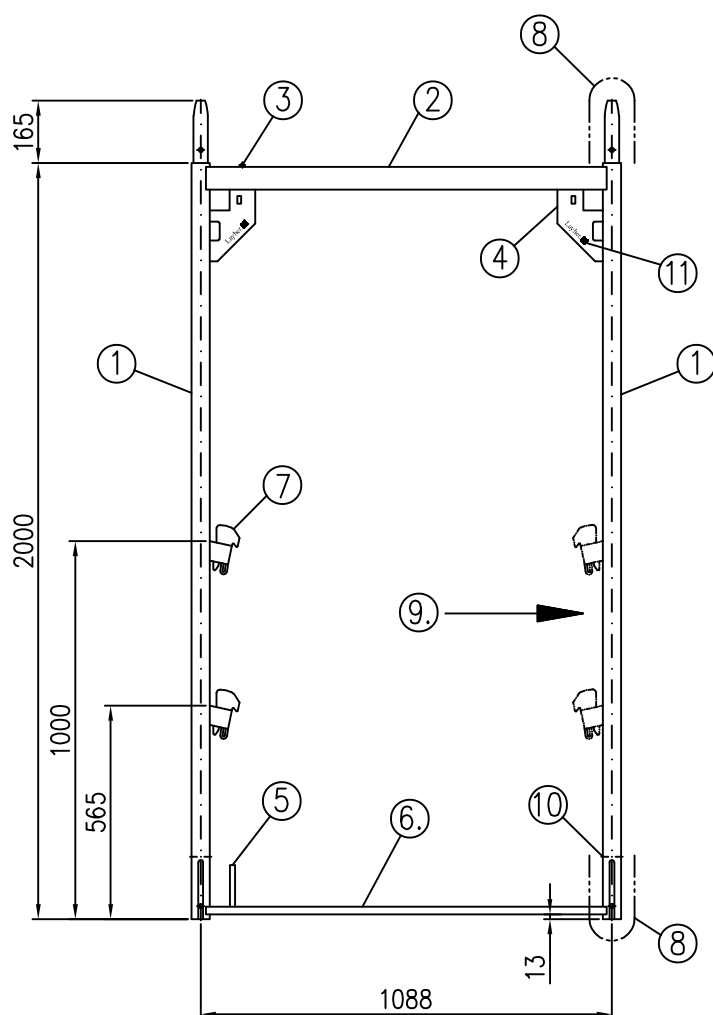
Frame scaffold ALBLITZ 100 S

Locking pin ø9 mm
 in accordance with Z-8.1-16.2

ABS710-A010_AB1

10.2016

Annex A,
 page 10



- ① Tube Ø48.3x2.7 EN 10219-1 – S460MH
- ② U-profile 49x53x2.5 EN 10149-2 – S460MC (see Annex A, page 22)
- ③ Pin Steel
- ④ Lightweight gusset plate Steel
- ⑤ Toeboard pin Steel
- ⑥ Rectangular tube 40x20x2 Steel
- ⑦ Guardrail wedge housing (see Annex A, page 25)
- ⑧ see Annex A, page 21
- ⑨ 2 slotted holes for connecting the locking guardrail wedge housings
alternatively: 2 welded-on guardrail wedge housings
- ⑩ Marking of the diagonal braces
- ⑪ Marking

For detailed information, please refer to Deutsches Institut für Bautechnik (DiBt).

Weight [kg]
21.5

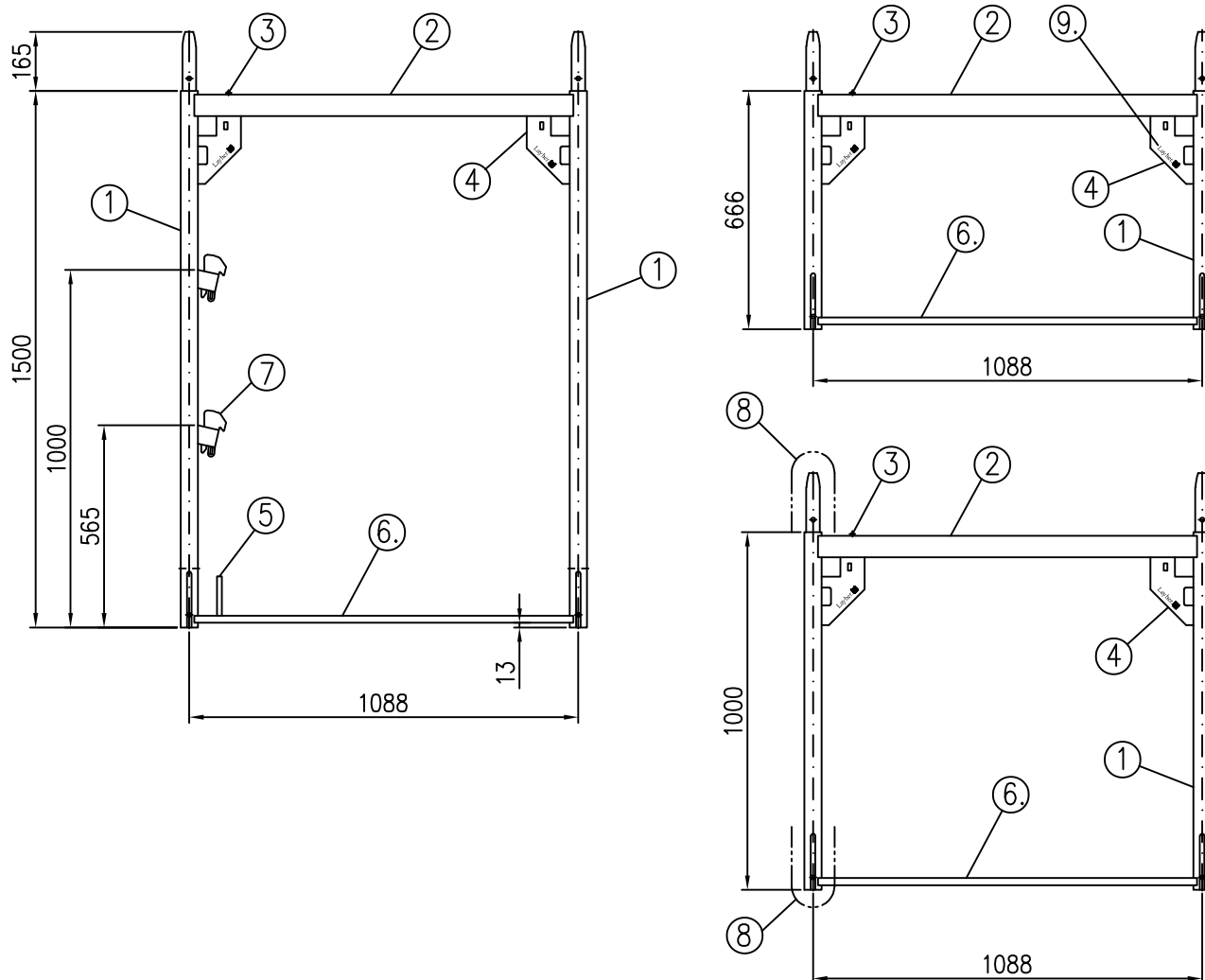
Frame scaffold ALBLITZ 100 S

Lightweight assembly frame 2.00 x 1.09 m, steel
in accordance with Z-8.1-840

ABS116-A012_AB1

12.2021

Annex A,
page 11



- | | | |
|----------------------------|-----------|--|
| ① Tube | ø48.3x2.7 | EN 10219-1 – S460MH |
| ② U-profile | 49x53x2.5 | EN 10149-2 – S460MC (see Annex A, page 22) |
| ③ Pin | | Steel |
| ④ Lightweight gusset plate | | Steel |
| ⑤ Toeboard pin | | Steel |
| ⑥ Rectangular tube | 40x20x2 | Steel |
| ⑦ Guardrail wedge housing | | (see Annex A, page 25) |
| ⑧ see Annex A, page 21 | | |
| ⑨ Marking | | |

For detailed information, please refer to Deutsches Institut für Bautechnik (DIBt).

Dimens. [m]	Weight [kg]
0.66	11.5
1.00	13.8
1.50	14.9

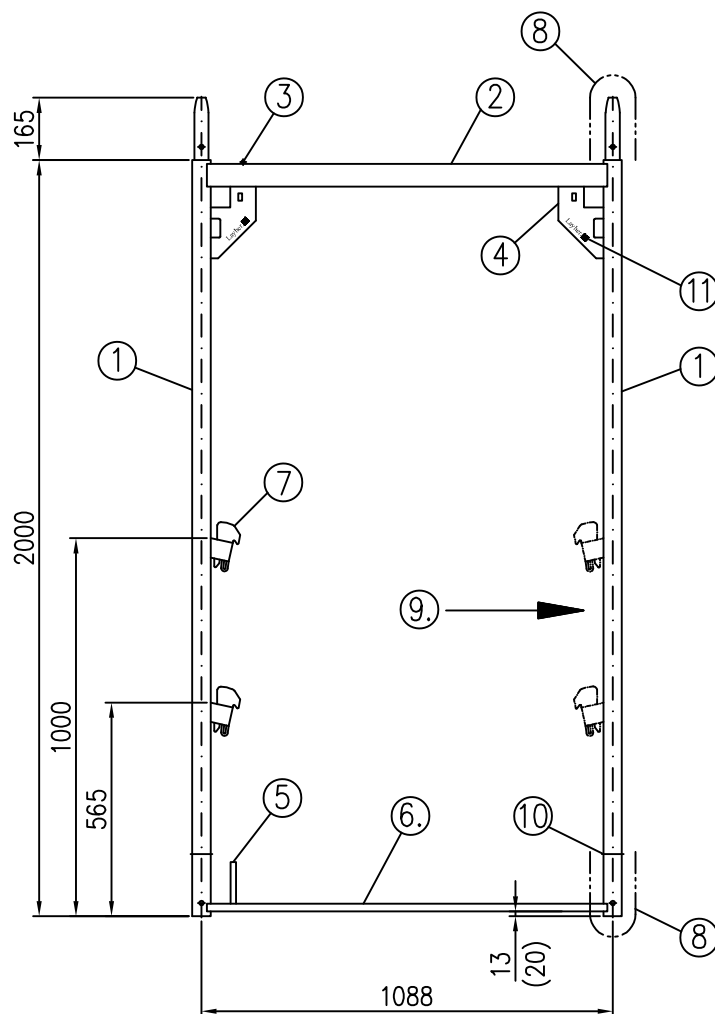
Frame scaffold ABLITZ 100 S

Lightweight assembly frame 1.50 – 1.00 – 0.66 m x 1.09 m, steel
in accordance with Z-8.1-840

ABS116-A011_AB1

12.2021

Annex A,
page 12



- ① Tube Ø48.3x3.2 EN 10219-1 – S235JRH $R_{eH} \geq 320 \text{ N/mm}^2$
- ② U-profile 49x60x3 (see Annex A, page 24)
- ③ Pin Steel
- ④ Lightweight gusset plate Steel
- ⑤ Toeboard pin Steel
- ⑥ Rectangular tube 40x20x2 Steel
- ⑦ Guardrail wedge housing (see Annex A, page 25)
- ⑧ see Annex A, page 21
- ⑨ 2 slotted holes for connecting the locking guardrail wedge housings
alternatively: 2 welded-on guardrail wedge housings
- ⑩ Marking of the diagonal braces
- ⑪ Marking

For detailed information, please refer to Deutsches Institut für Bautechnik (DIBt).

Weight [kg]
24.5

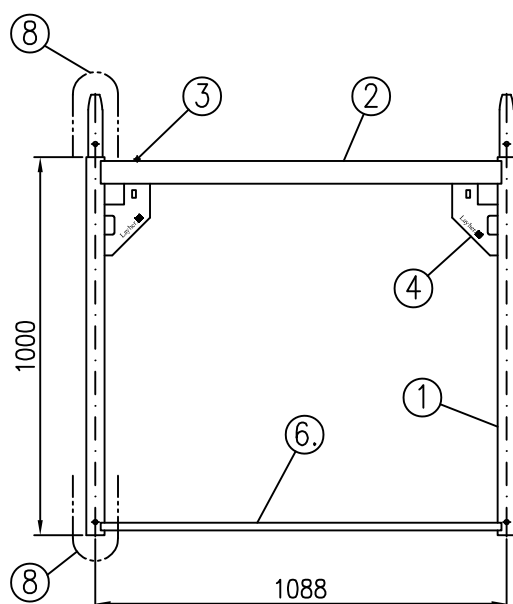
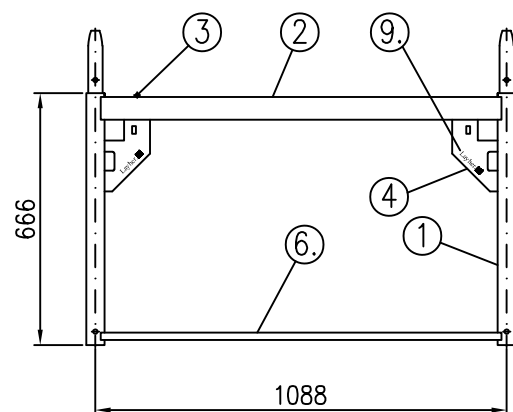
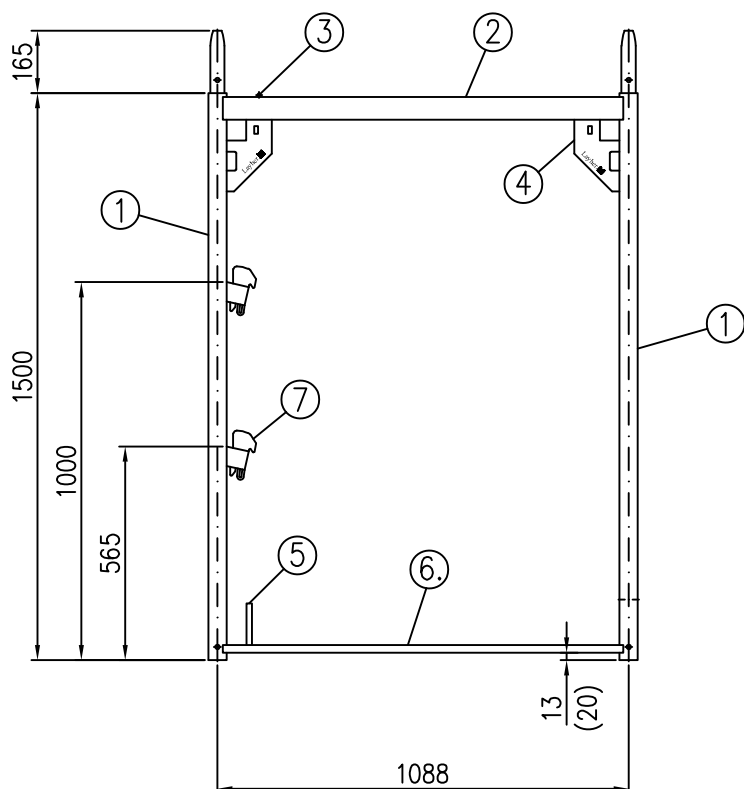
Frame scaffold ALBLITZ 100 S

Assembly frame 2.00 m x 1.09 m, steel
in accordance with Z-8.1-840

ABS105-A011_AB1

12.2021

Annex A,
page 13



- | | | | |
|----------------------------|-----------|------------------------|----------------------------------|
| ① Tube | Ø48.3x3.2 | EN 10219-1 – S235JRH | $R_{eH} \geq 320 \text{ N/mm}^2$ |
| ② U-profile | 49x60x3 | (see Annex A, page 24) | |
| ③ Pin | | Steel | |
| ④ Lightweight gusset plate | | Steel | |
| ⑤ Toeboard pin | | Steel | |
| ⑥ Rectangular tube | 40x20x2 | Steel | |
| ⑦ Guardrail wedge housing | | (see Annex A, page 25) | |
| ⑧ see Annex A, page 21 | | | |
| ⑨ Marking | | | |

For detailed information, please refer to Deutsches Institut für Bautechnik (DIBt).

Dimens. [m]	Weight [kg]
0.66	14.1
1.00	15.9
1.50	17.3

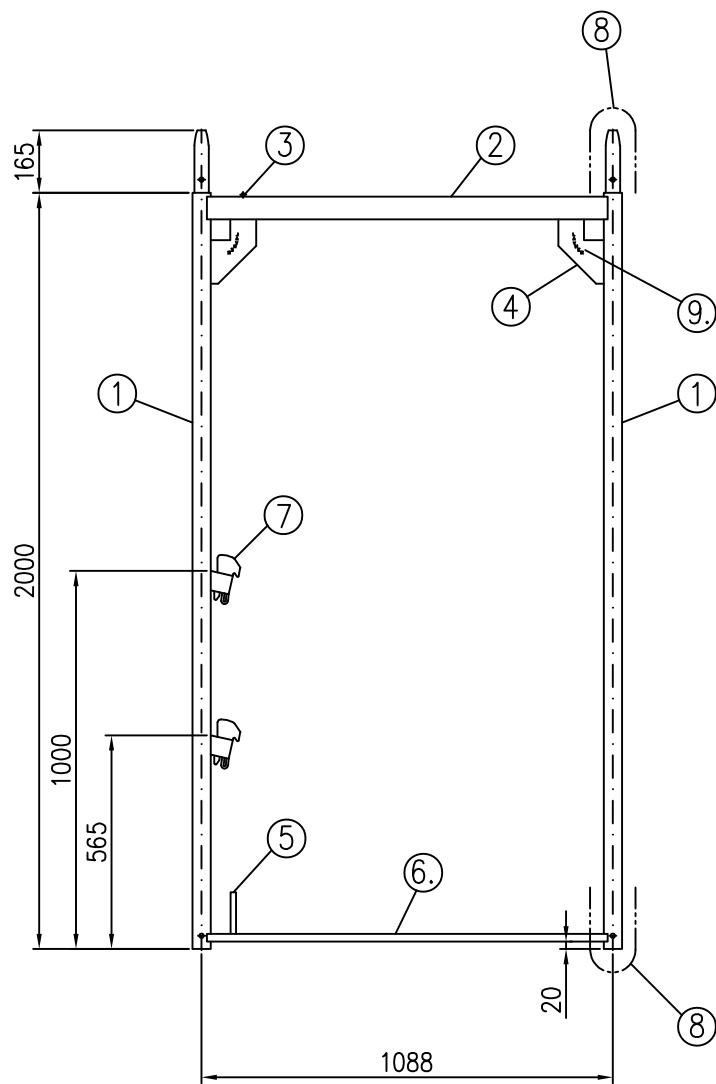
Frame scaffold ALBLITZ 100 S

Assembly frame 1.50 – 1.00 – 0.66 m x 1.09 m, steel
in accordance with Z-8.1-840

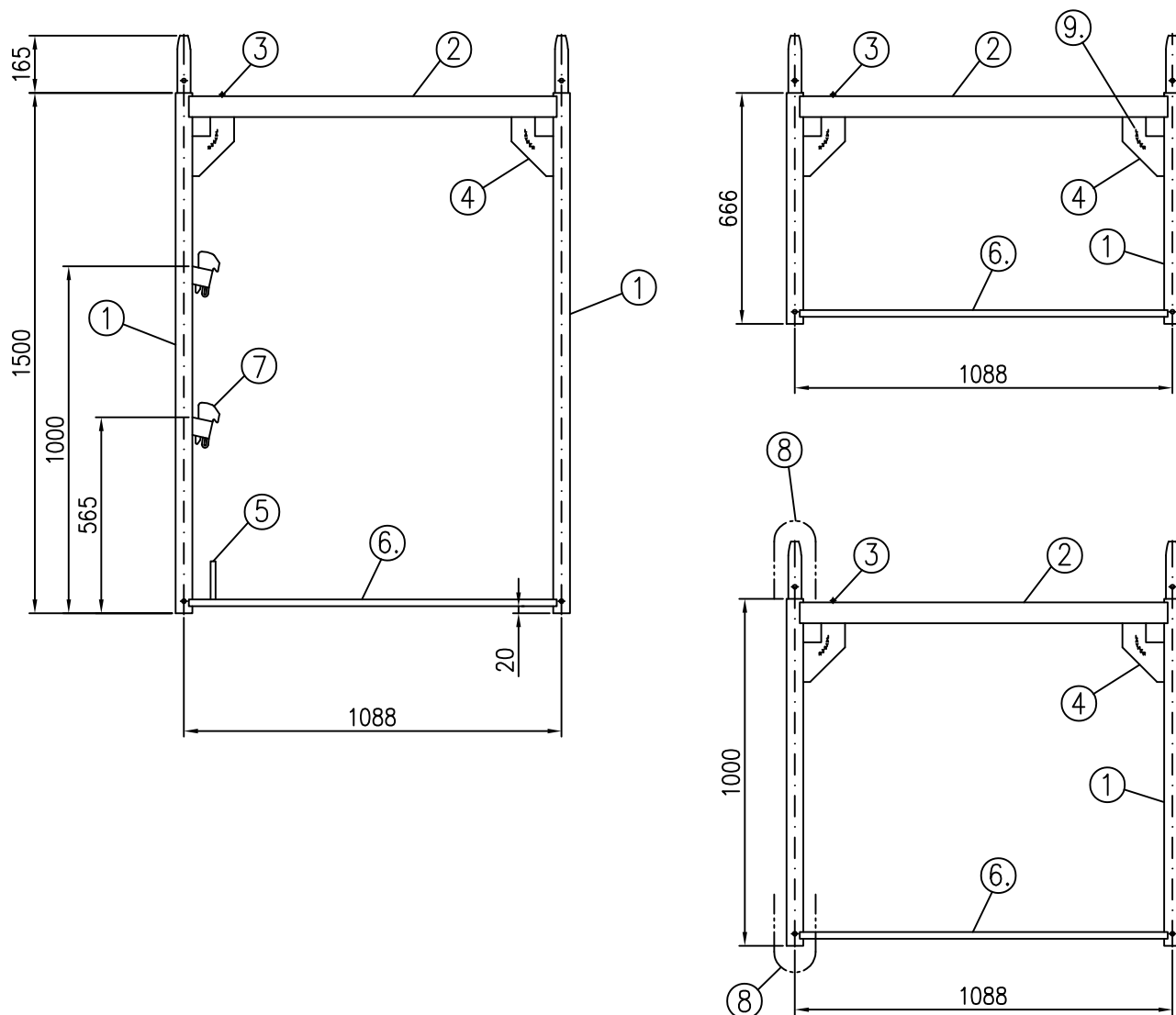
ABS105-A010_AB1

12.2021

Annex A,
page 14



① Tube	ø48.3x3.2	EN 10219-1 – S235JRH	ReH ≥ 320 N/mm²
② U-profile	49x60x3	(see Annex A, page 24)	
③ Pin		Steel	
④ Gusset plate 170		Steel	
⑤ Toeboard pin		Steel	
⑥ Rectangular tube	40x20x2	Steel	
⑦ Guardrail wedge housing		(see Annex A, page 25)	
⑧ see Annex A, page 21			
⑨ Marking			Only for continued use— no longer manufactured
Frame scaffold ALBLITZ 100 S			Annex A, page 15
Assembly frame 2.00 x 1.09 m, steel (discontinued design) in accordance with Z-8.1-840			
ABS111-A014_AB1			
			10.2016



- | | | | |
|---------------------------|-----------|------------------------|----------------------------------|
| ① Tube | ø48.3x3.2 | EN 10219-1 – S235JRH | $R_{eH} \geq 320 \text{ N/mm}^2$ |
| ② U-profile | 49x60x3 | (see Annex A, page 24) | |
| ③ Pin | | Steel | |
| ④ Gusset plate 170 | | Steel | |
| ⑤ Toeboard pin | | Steel | |
| ⑥ Rectangular tube | 40x20x2 | Steel | |
| ⑦ Guardrail wedge housing | | (see Annex A, page 25) | |
| ⑧ see Annex A, page 21 | | | |
| ⑨ Marking | | | |

Only for continued use –
no longer manufactured

Dimens. [m]	Weight [kg]
0.66	14.1
1.00	15.9
1.50	17.3

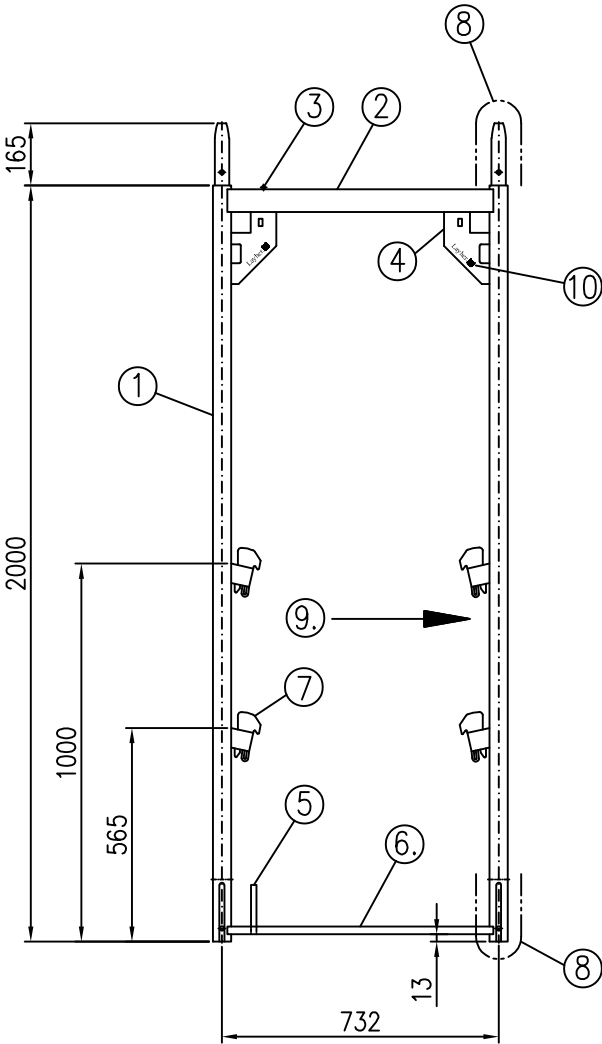
Frame scaffold ALBLITZ 100 S

Assembly frame 1.50 – 1.00 – 0.66 m x 1.09 m, steel (discontinued design)
in accordance with Z-8.1-840

ABS111-A013_AB1

12.2021

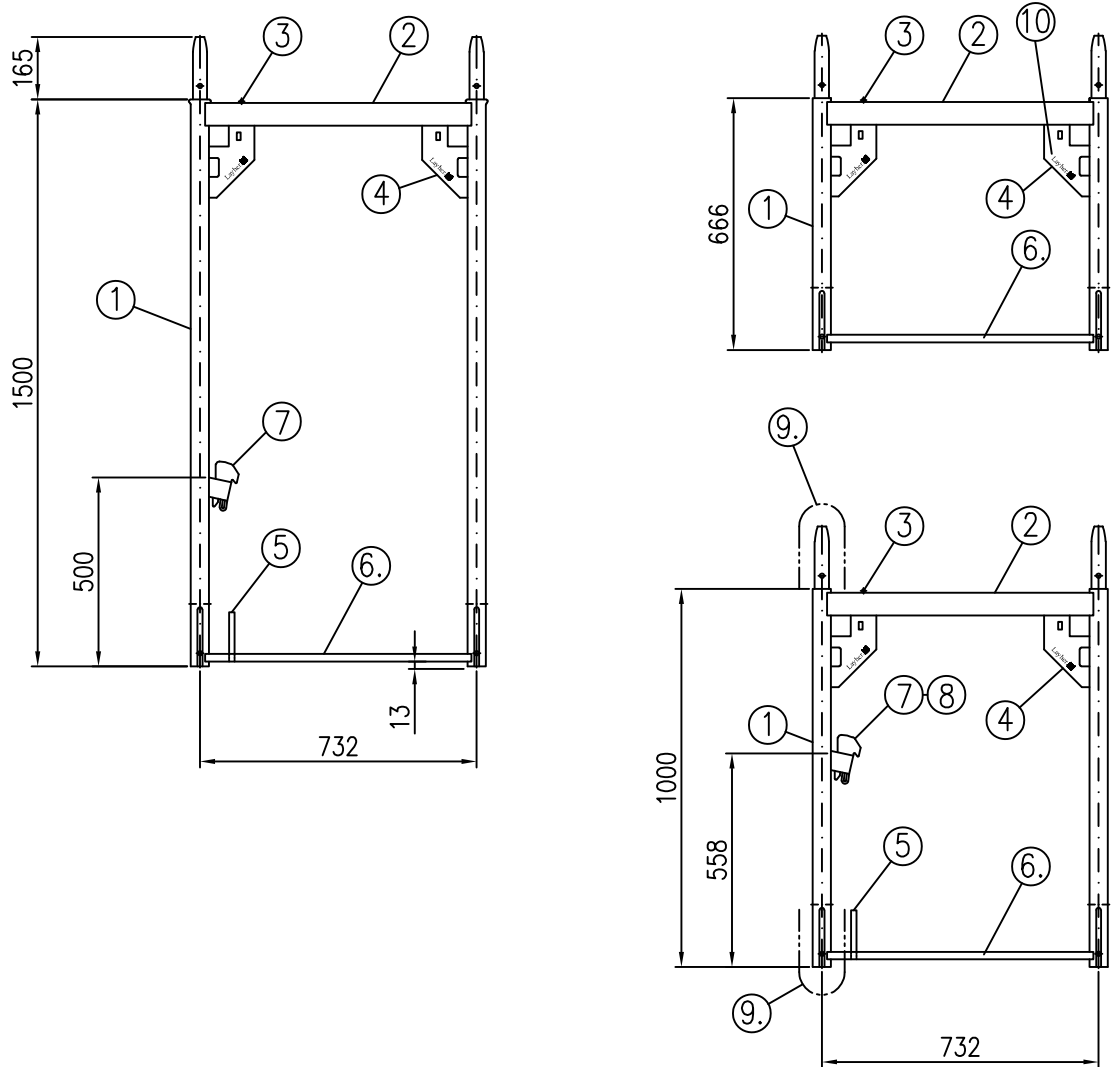
Annex A,
page 16



- ① Tube
- ② U-profile (see Annex A, pages 22, 23)
- ③ Pin
- ④ Lightweight gusset plate
- ⑤ Toeboard pin
- ⑥ Rectangular tube
- ⑦ Guardrail wedge housing (see Annex A, page 25)
- ⑧ see Annex A, page 21
- ⑨ 2 slotted holes for connecting the locking guardrail wedge housings
alternatively: 2 welded-on guardrail wedge housings
- ⑩ Marking

Weight [kg]
18.8

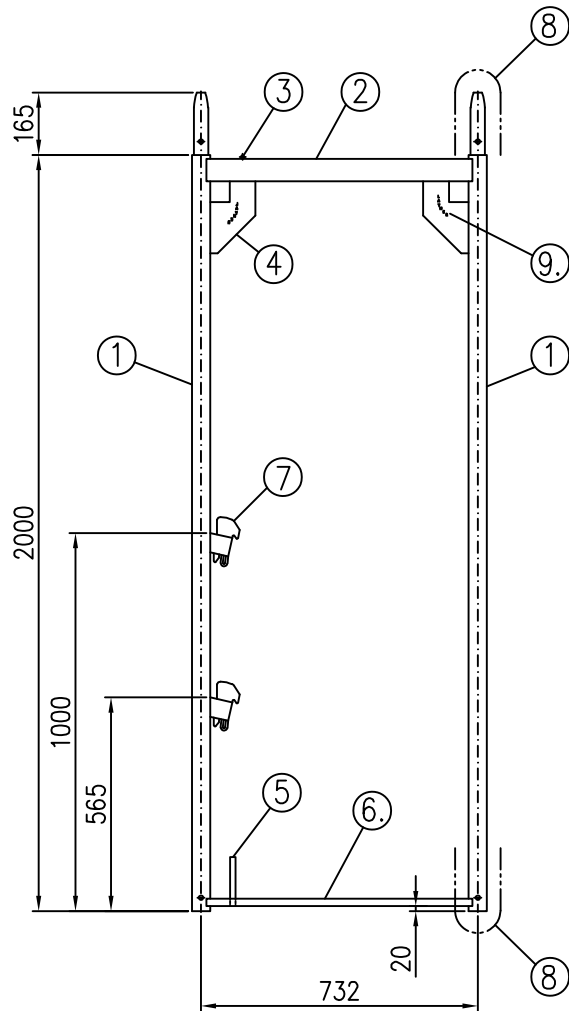
Frame scaffold ALBLITZ 100 S	Annex A, page 17
Lightweight assembly frame 2.00 x 0.73 m, steel in accordance with Z-8.1-16.2	
ABS721-A001_AB112.2021	



- ① Tube
- ② U-profile (see Annex A, pages 22, 23)
- ③ Pin
- ④ Lightweight gusset plate
- ⑤ Toeboard pin
- ⑥ Rectangular tube
- ⑦ Guardrail wedge housing (see Annex A, page 25)
- ⑧ alternatively: without Guardrail wedge housing
- ⑨ see Annex A, page 21
- ⑩ Marking

Dimens. [m]	Weight [kg]
0.66	9.3
1.00	11.9
1.50	15.8

Frame scaffold ALBLITZ 100 S	Annex A, page 18
Lightweight assembly frame 1.50 – 1.00 – 0.66 x 0.73 m, steel in accordance with Z–8.1–16.2	
ABS711–A011_AB112.2021	

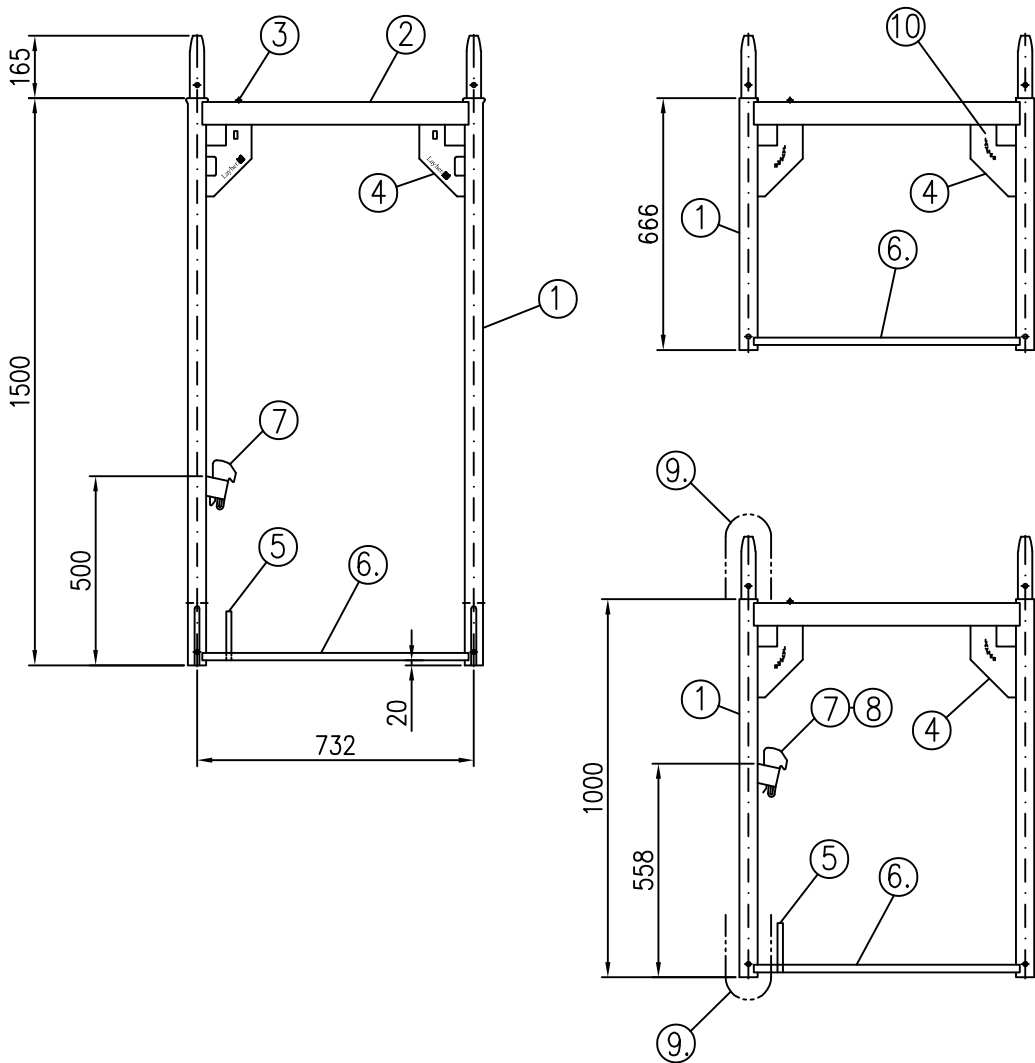


- ① Tube
- ② U-profile (see Annex A, page 23)
- ③ Pin
- ④ Gusset plate 170
- ⑤ Toeboard pin
- ⑥ Rectangular tube
- ⑦ Guardrail wedge housing (see Annex A, page 25)
- ⑧ see Annex A, page 21
- ⑨ Marking

Only for continued use—
no longer manufactured

Weight [kg]
21.3

Frame scaffold ALBLITZ 100 S	Annex A, page 19
Assembly frame 2.00 x 0.73 m, steel (discontinued design) in accordance with Z-8.1-16.2	
ABS721-A002_AB112.2021	

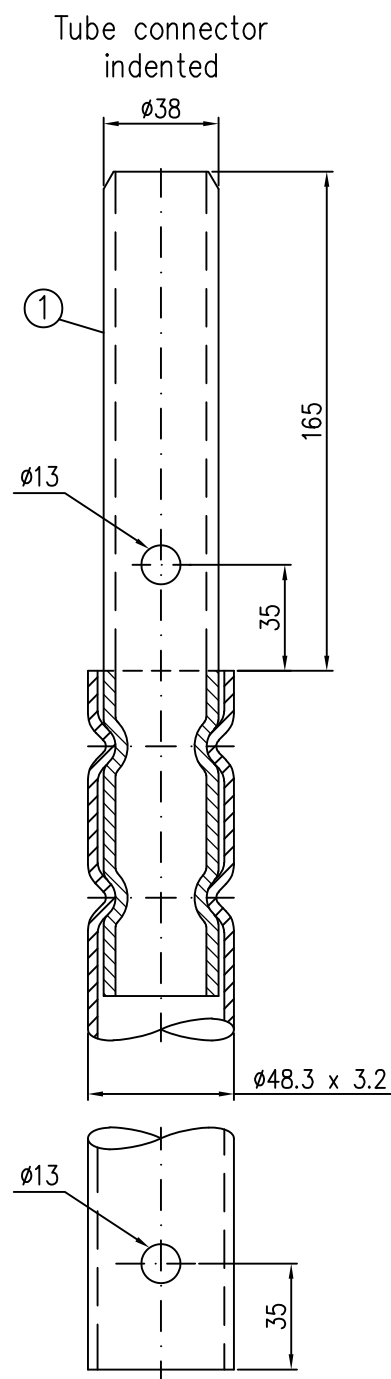
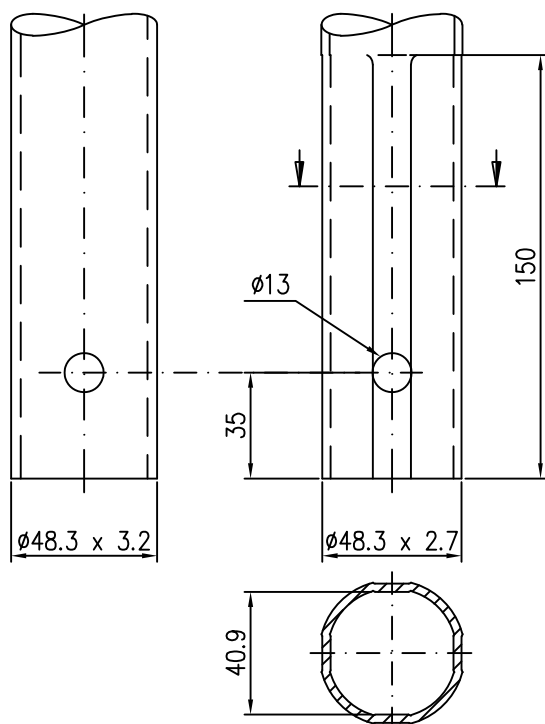
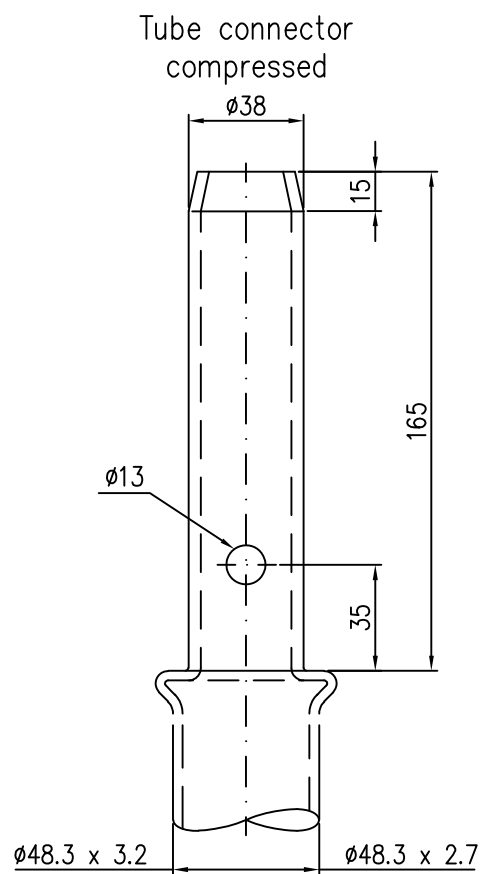


- ① Tube
- ② U-profile (see Annex A, page 23)
- ③ Pin
- ④ Gusset plate 170
- ⑤ Toeboard pin
- ⑥ Rectangular tube
- ⑦ Guardrail wedge housing (see Annex A, page 25)
- ⑧ alternatively: without Guardrail wedge housing
- ⑨ see Annex A, page 21
- ⑩ Marking

Dimens. [m]	Weight [kg]
0.66	10.4
1.00	12.8
1.50	17.7

Only for continued use—
no longer manufactured

Frame scaffold ALBLITZ 100 S	Annex A, page 20
Assembly frame 1.50 – 1.00 – 0.66 x 0.73 m, steel (discontinued design) in accordance with Z–8.1–16.2	
ABS711–A012_AB1	



① Tube connector

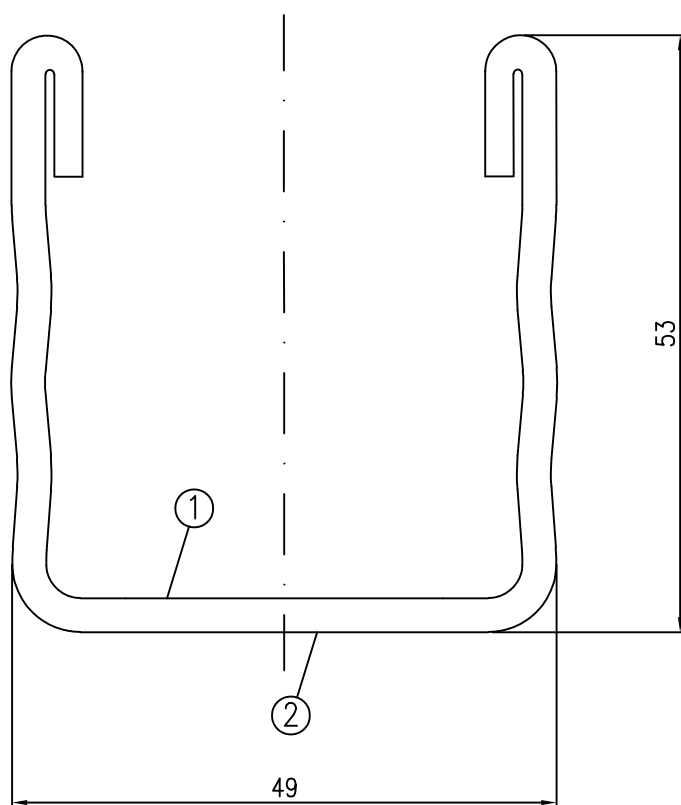
Frame scaffold ALBLITZ 100 S

Detailed view: Tube connector compressed/ indented
 in accordance with Z-8.1-16.2

ABS710-A014_AB1

12.2021

Annex A,
 page 21



- ① U-profile 49x53x2.5 Please refer to building component drawing for material information
 ② Marking

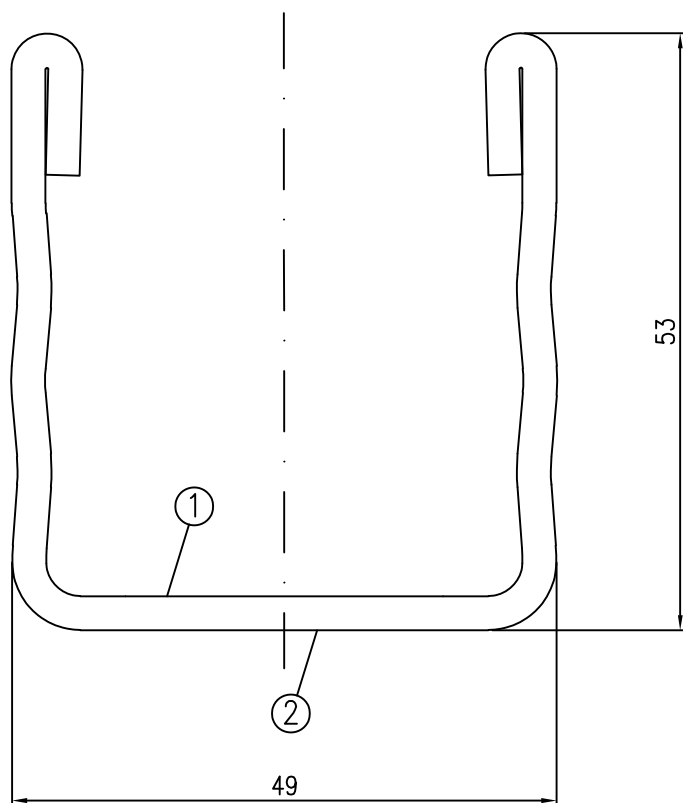
Frame scaffold ALBLITZ 100 S

Detailed view: U-profile 53 T10
 in accordance with Z-8.1-16.2

ABS716-A023_AB1

12.2021

Annex A,
 page 22



- ① U-profile 49x53x2.5 Please refer to building component drawing for material information
 ② Marking

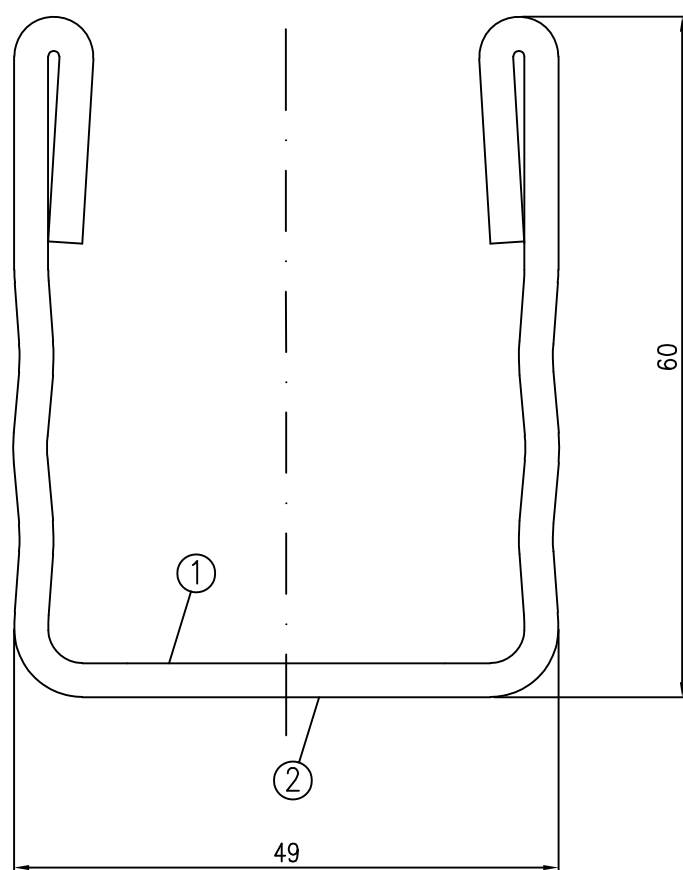
Frame scaffold ALBLITZ 100 S

Detailed view: U-profile 53
 in accordance with Z-8.1-16.2

ABS710-A020_AB1

12.2021

Annex A,
 page 23



- ① U-profile 49x60x3 DIN EN 10025-2 – S235JR $R_{eH} \geq 320 \text{ N/mm}^2$
② Marking

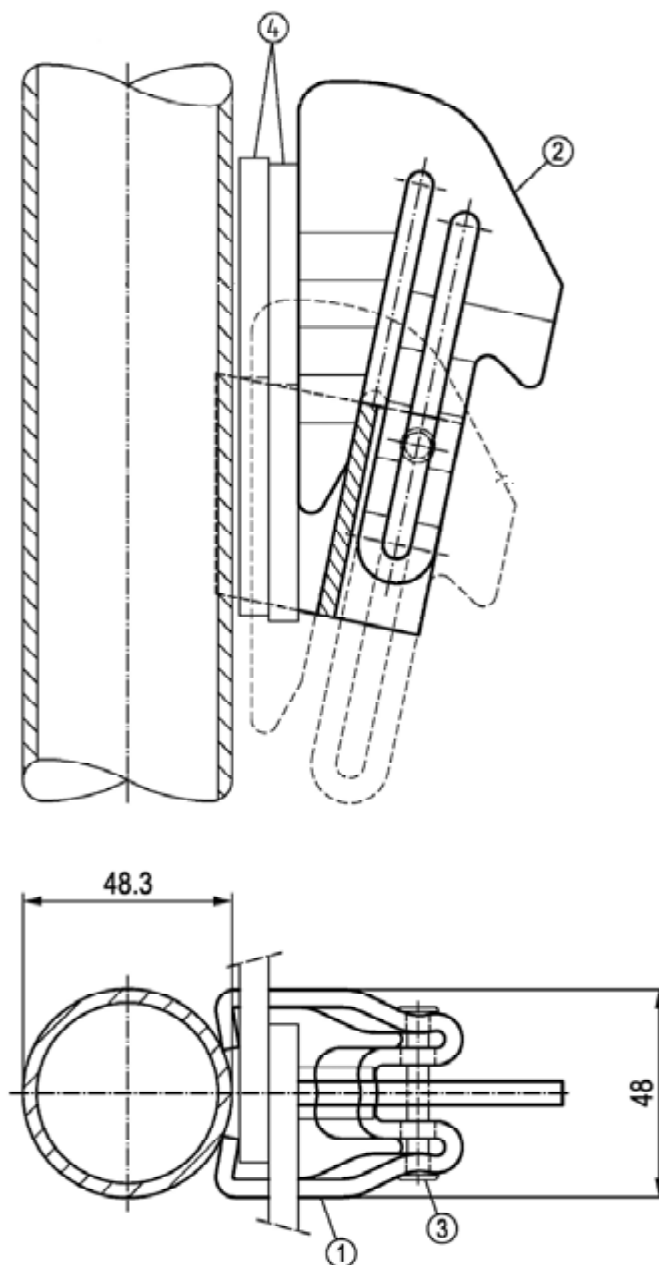
Frame scaffold ALBLITZ 100 S

Detailed view: U-profile 60
in accordance with Z-8.1-840

ABS710-A021_AB1

12.2021

Annex A,
page 24



- ① Housing
- ② Wedge
- ③ Blind rivet
- ④ Guardrail suspension hook

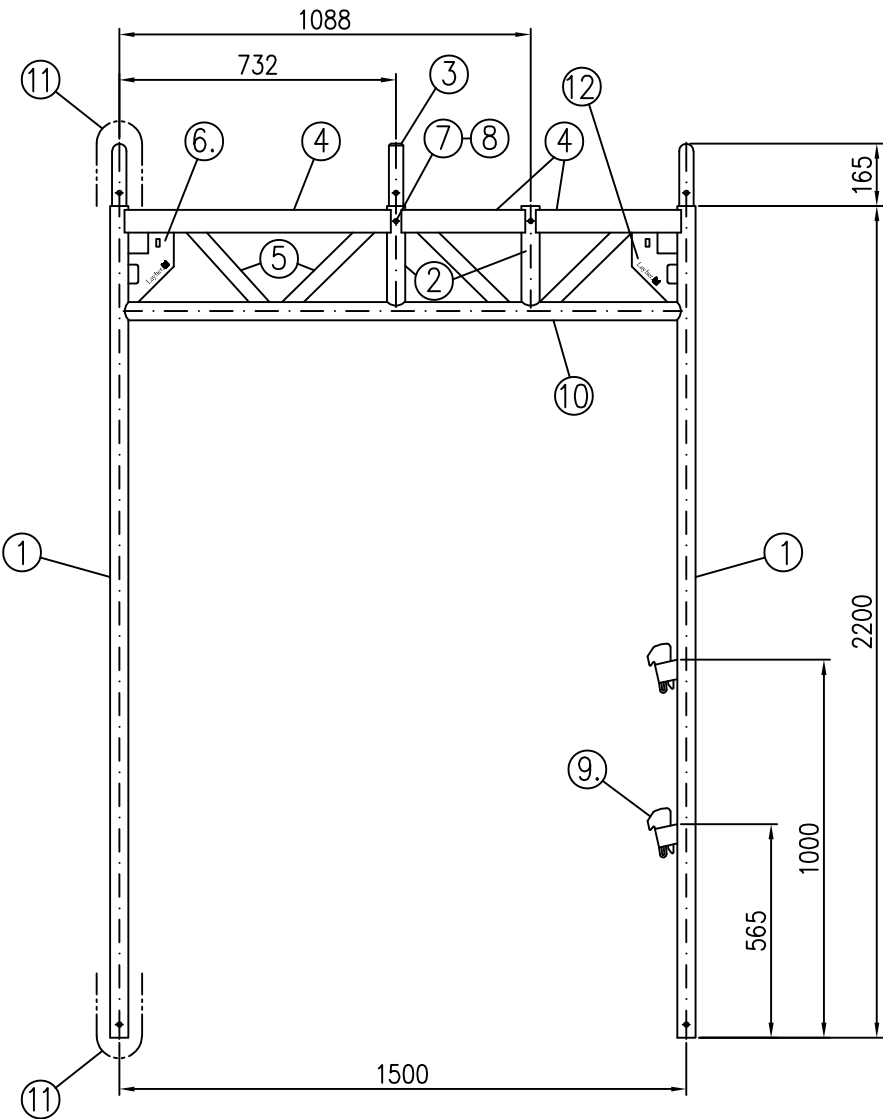
Frame scaffold ALBLITZ 100 S

Detailed view: Guardrail housing fixture, steel
in accordance with Z-8.1-16.2

ABS710-A022_ABS7

12.2021

Annex A,
page 25

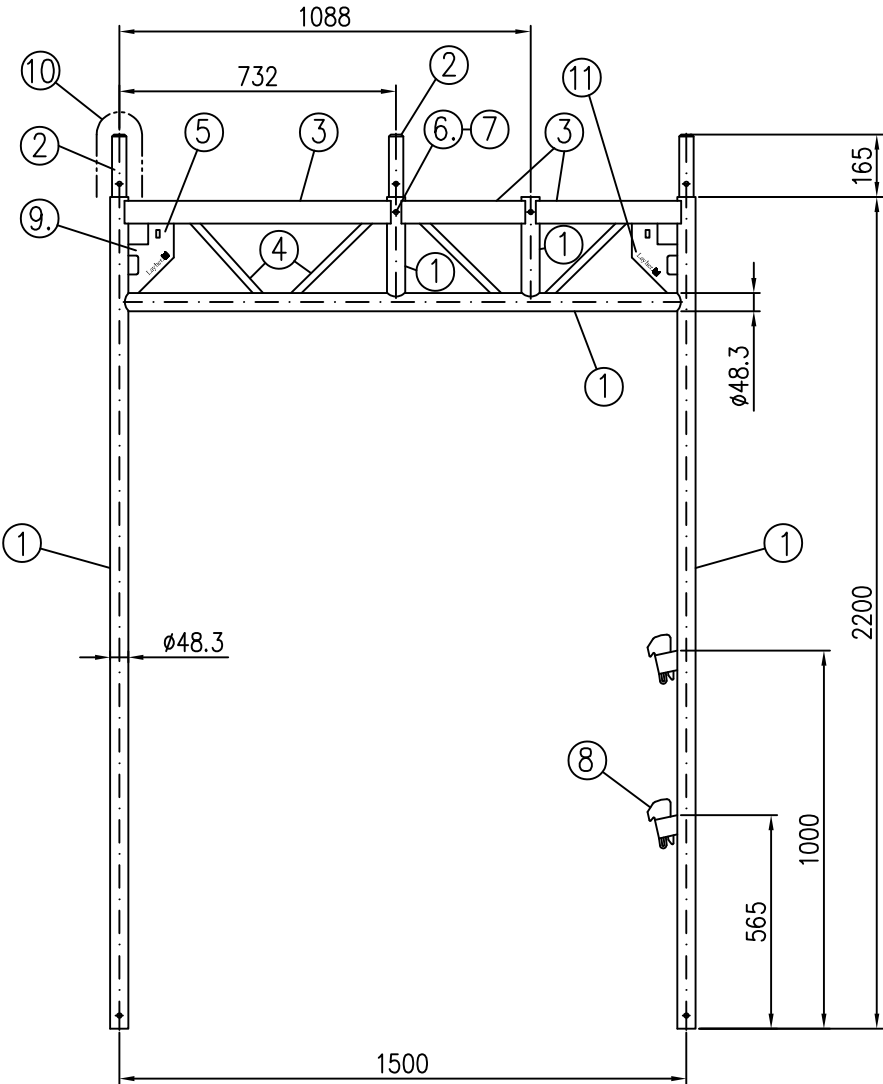


- ① Tube
- ② Tube
- ③ Tube connector
- ④ U-profile (see Annex A, page 22)
- ⑤ Rectangular tube
- ⑥ Lightweight gusset plate
- ⑦ Hexagon bolt
- ⑧ Locking nut
- ⑨ Guardrail wedge housing (see Annex A, page 25)
- ⑩ Tube
- ⑪ see Annex A, page 21
- ⑫ Marking

Weight [kg]
31.2

Frame scaffold ALBLITZ 100 S	Annex A, page 26
Lightweight passage frame 2.20 x 1.50 m in accordance with Z-8.1-16.2	
ABS716-A027_AB1	

12.2021



- ① Tube

② Tube connector

③ U-profile

④ Rectangular tube

⑤ Lightweight gusset plate

⑥ Hexagon bolt

⑦ Locking nut

⑧ Guardrail wedge housing

⑨ alternative design with Gusset plate 170

⑩ see Annex A, page 21

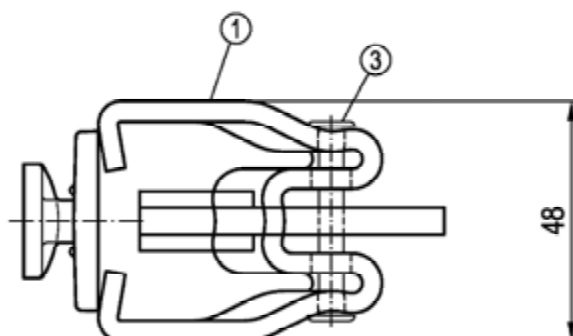
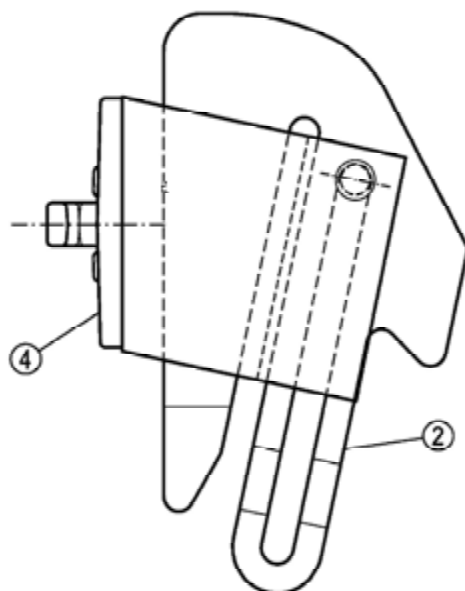
⑪ Marking
- (see Annex A, page 24)

(see Annex A, page 25)
- Gusset plate 170

manufactured until approx. 2001)

Only for continued use— no longer manufactured	Weight [kg]
	35.4

Frame scaffold ALBLITZ 100 S		Annex A, page 27
Passage frame 2.20 x 1.50 m in accordance with Z-8.1-16.2		
ABS710-A027_AB1	12.2021	



① Housing (see Annex A, page 25)

② Wedge

③ Blind rivet

④ Locking plate

Weight [kg]
0.5

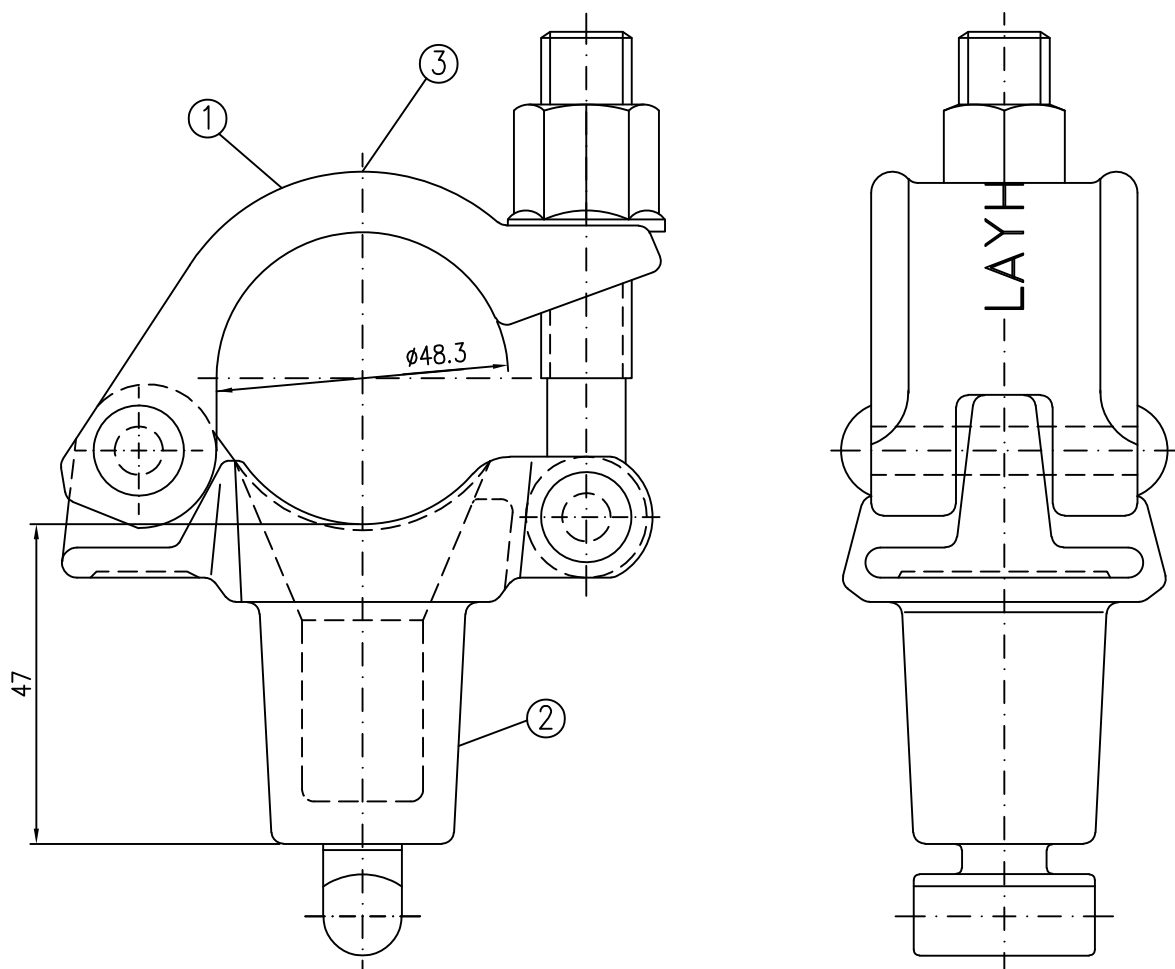
Frame scaffold ALBLITZ 100 S

Locking guardrail wedge housing
 in accordance with Z-8.1-16.2

ABS710-A015_AB1

12.2021

Annex A,
 page 28



- ① Halfcoupler with screw top
- ② Base piece-gusset plate coupler
- ③ Marking

in accordance with approval Z-8.331-882

Weight [kg]
0.9

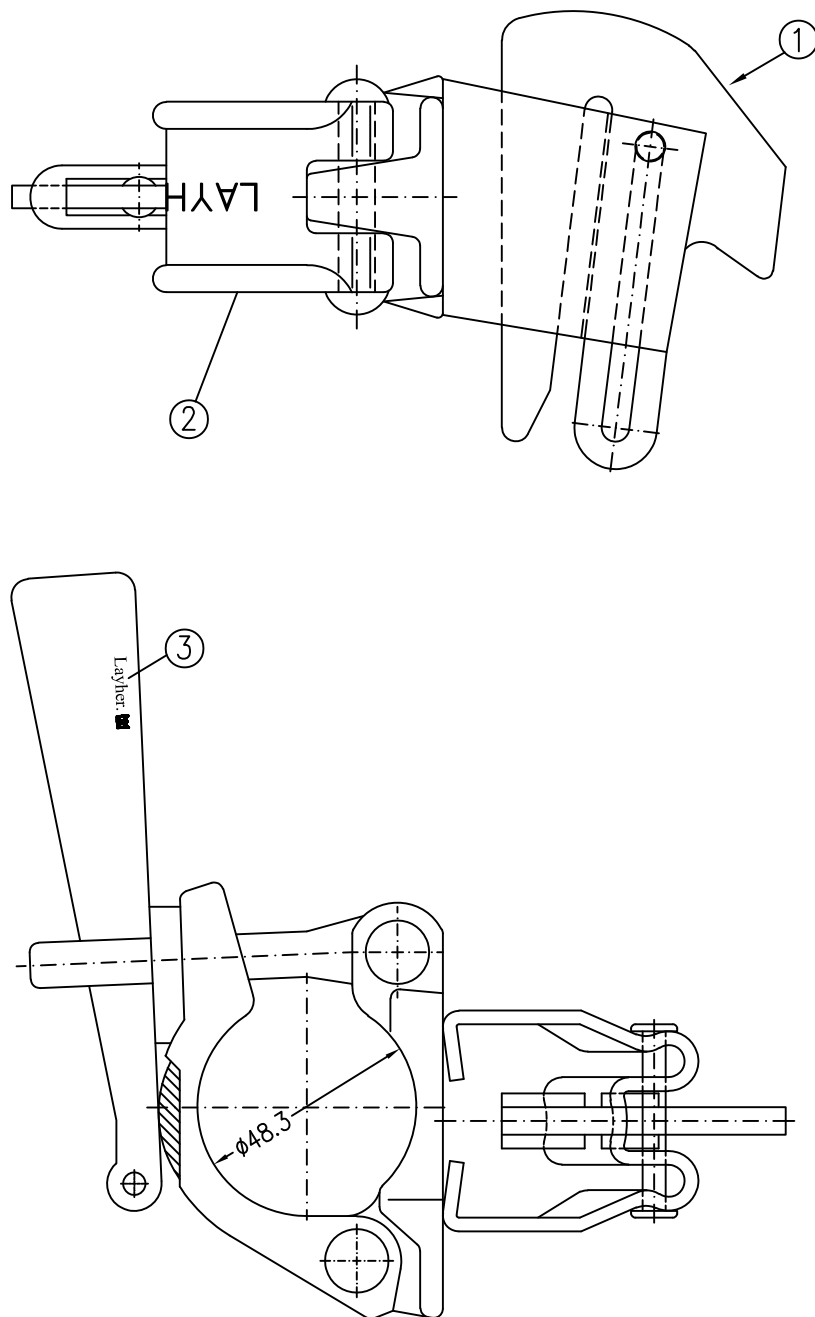
Frame scaffold ALBLITZ 100 S

Gusset plate coupler
in accordance with Z-8.1-16.2

ABS710-A016_ABS7

12.2021

Annex A,
page 29



- ① Guardrail wedge housing
- ② Halfcoupler with wedge-lock
- ③ Marking

(see Annex A, page 25)
in accordance with approval Z-8.331-882

Weight [kg]
1.3

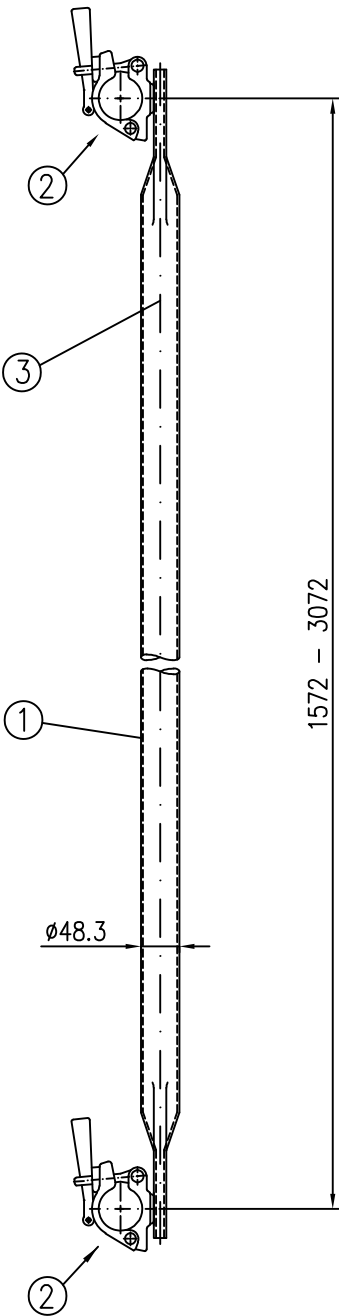
Frame scaffold ALBLITZ 100 S

Guardrail coupler with wedge housing
in accordance with Z-8.1-16.2

ABS710-A029_AB1

12.2021

Annex A,
page 30



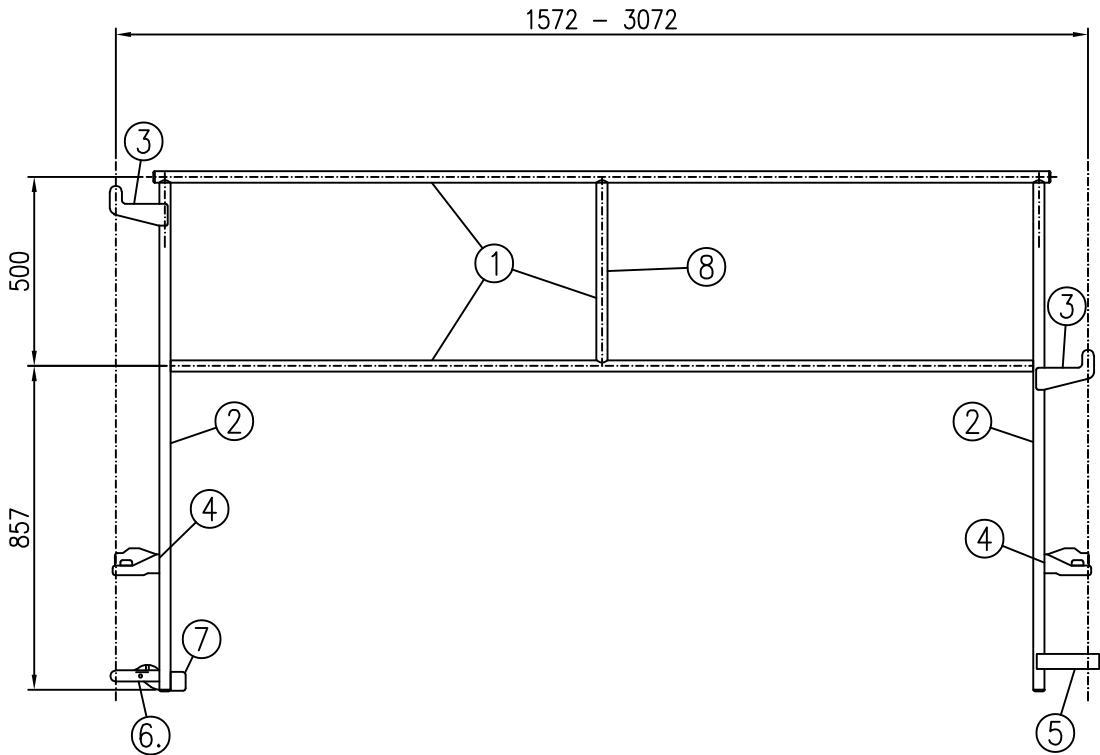
- ① Tube
- ② Halfcoupler with wedge-lock
- ③ Marking

in accordance with approval Z-8.331-882

Dimens. [m]	Weight [kg]
1.57	5.3
2.07	6.9
2.57	8.6
3.07	10.4

Frame scaffold ALBLITZ 100 S	Annex A, page 31
Horizontal strut 1.57 – 3.07 m in accordance with Z-8.1-16.2	
ABS710-A030_AB1	

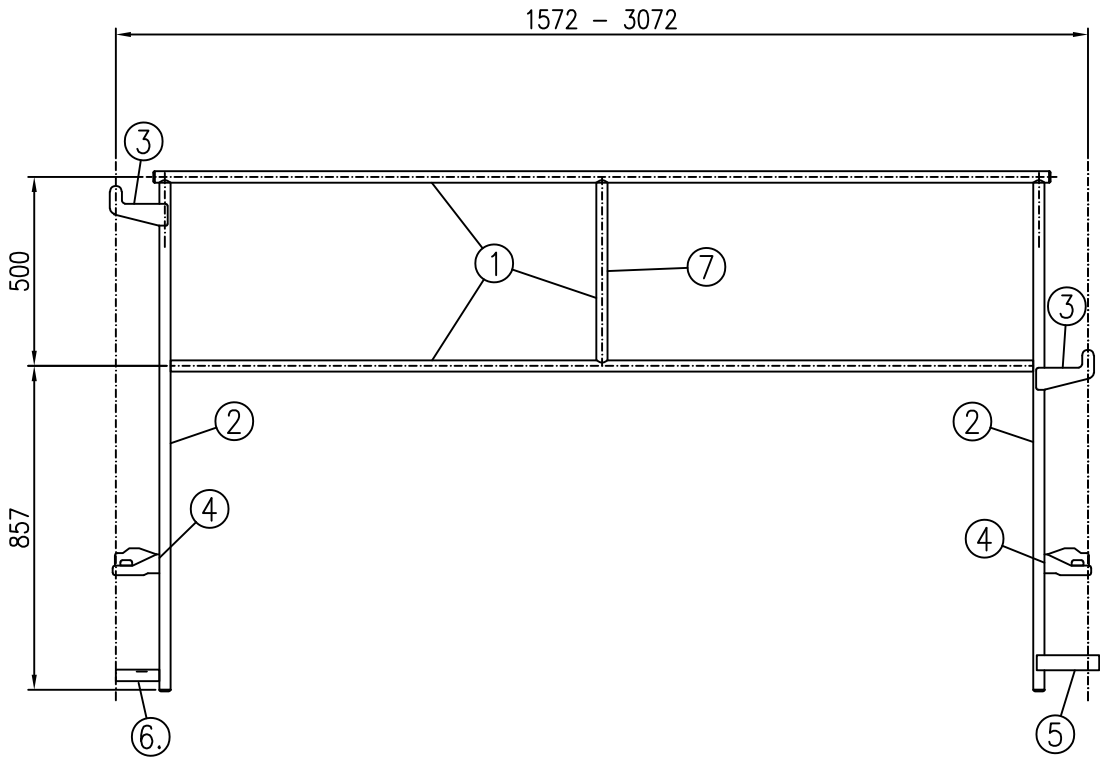
12.2021



- ① Tube
- ② Square tube
- ③ Suspension hook
- ④ Suspension fork (left / right)
- ⑤ Insertion hook
- ⑥ Fixing bracket turning bolt
- ⑦ Turning bolt
- ⑧ 1.57 m without mid rung

Dimens. [m]	Weight [kg]
1.57	9.9
2.07	11.7
2.57	12.9
3.07	14.1

Frame scaffold ALBLITZ 100 S	Annex A, page 32
I-guardrail with turning bolt 1.57 – 3.07 m in accordance with Z-8.1-16.2	
ABS121-A001_AB1	

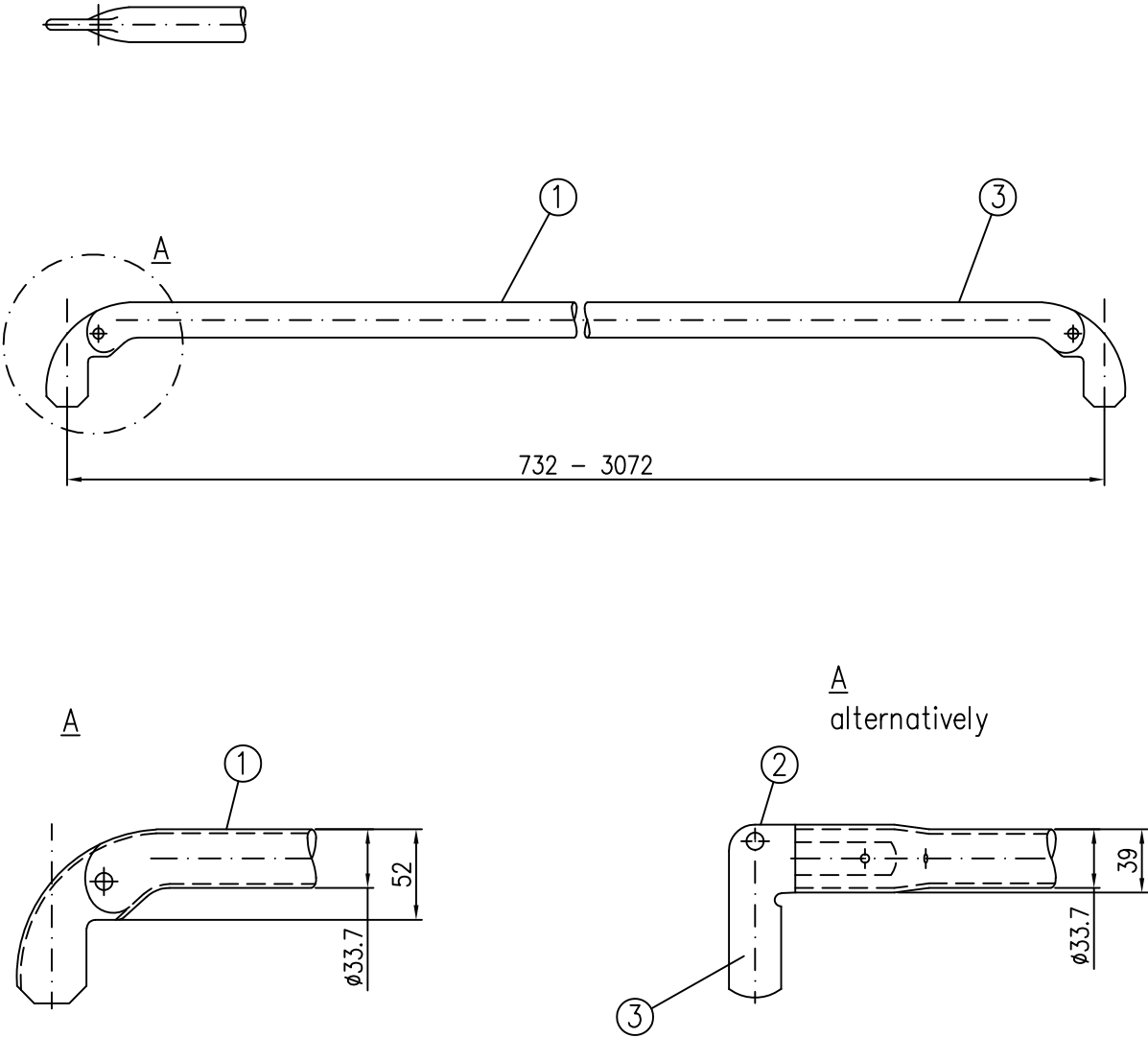


- ① Tube
- ② Square tube
- ③ Suspension hook
- ④ Suspension fork (left / right)
- ⑤ Insertion hook
- ⑥ Fixing bracket
- ⑦ 1.57 m without mid rung

Dimens. [m]	Weight [kg]
1.57	9.9
2.07	11.7
2.57	12.9
3.07	14.1

Frame scaffold ALBLITZ 100 S	Annex A, page 33
I-guardrail 1.57 – 3.07 m in accordance with Z-8.1-16.2	
ABS121-A002_AB1	

12.2021

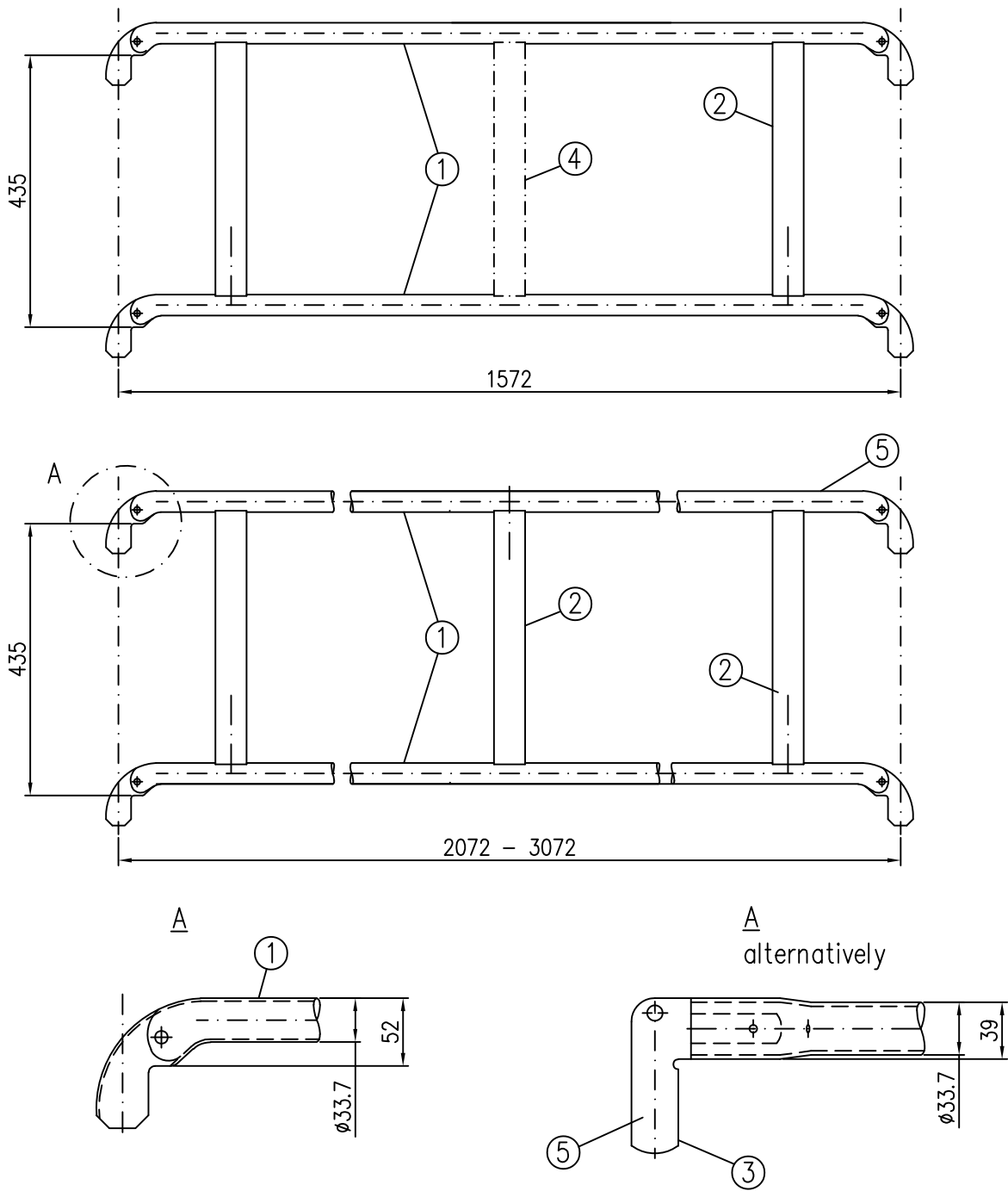


- ① Tube
- alternatively:
- ② Guardrail suspension hook
- ③ Marking

Dimens. [m]	Weight [kg]
0.73	1.6
1.09	2.0
1.57	2.9
2.07	3.8
2.57	4.7
3.07	5.6

Frame scaffold ALBLITZ 100 S	Annex A, page 34
Guardrail 0.73 – 3.07 m in accordance with Z-8.1-16.2	
ABS710-A031_AB1	

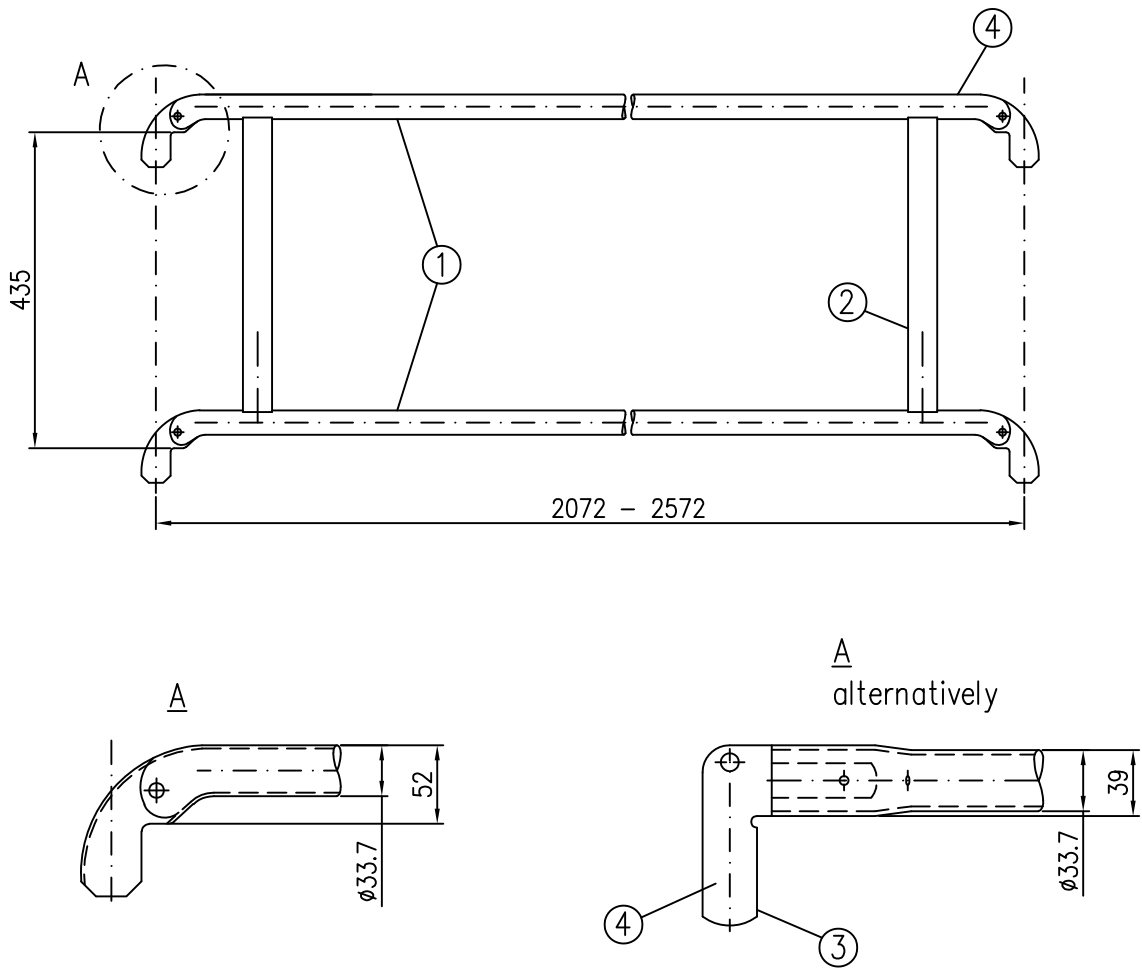
12.2021



- ① Tube
- ② Rectangular tube
alternatively:
- ③ Guardrail suspension hook
- ④ optionally as middle rung design
- ⑤ Marking

Dimens. [m]	Weight [kg]
1.57	7.9
2.07	10.5
2.57	12.4
3.07	14.1

Frame scaffold ALBLITZ 100 S	Annex A, page 35
Double guardrail 1.57 – 3.07 m, steel in accordance with Z–8.1–16.2	
ABS710–A032_AB1 12.2021	

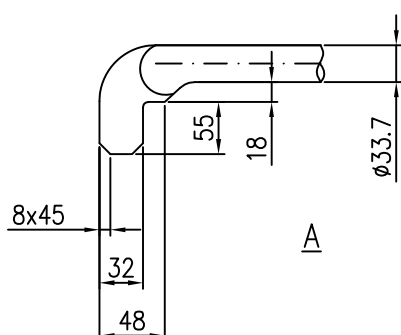
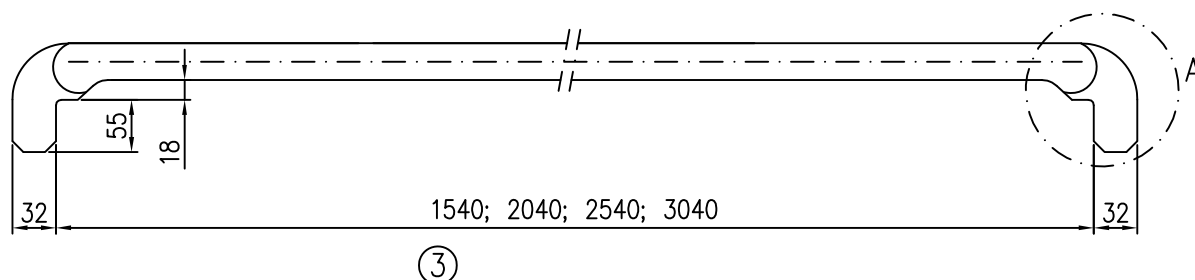
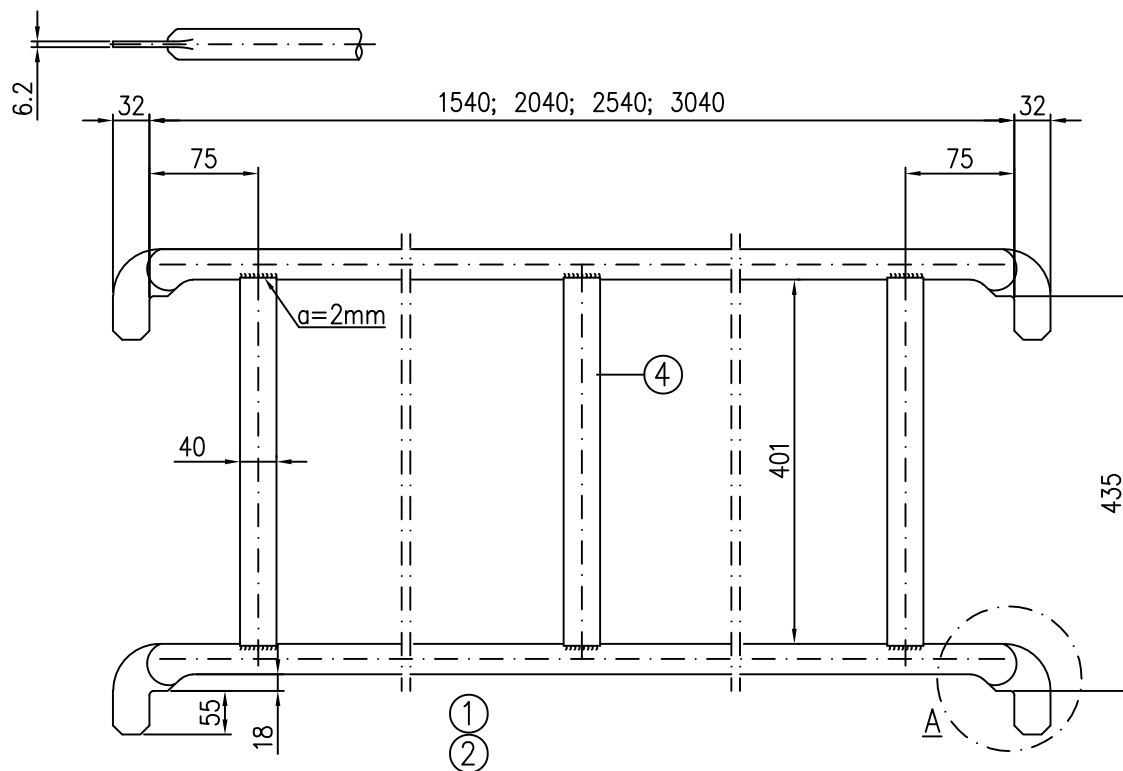


- ① Tube
- ② Rectangular tube
alternatively:
- ③ Guardrail suspension hook
- ④ Marking

Only for continued use—
no longer manufactured

Dimens. [m]	Weight [kg]
2.07	9.8
2.57	11.7

Frame scaffold ALBLITZ 100 S	Annex A, page 36
Double guardrail 2.07 – 2.57 m, steel (discontinued design) in accordance with Z-8.1-16.2	
ABS720-A033_AB1	



- | | | | |
|----------------------------|-------------------------|--------|----------------------------------|
| ① Tube | $\phi 33.7 \times 2.9$ | St37-2 | |
| ② Rung | $40 \times 20 \times 2$ | St37-2 | $R_{eH} \geq 320 \text{ N/mm}^2$ |
| ③ Tube | $\phi 33.7 \times 2.9$ | St37-2 | |
| ④ Rung only for 3.07 m bay | | | |

Only for continued use—
no longer manufactured

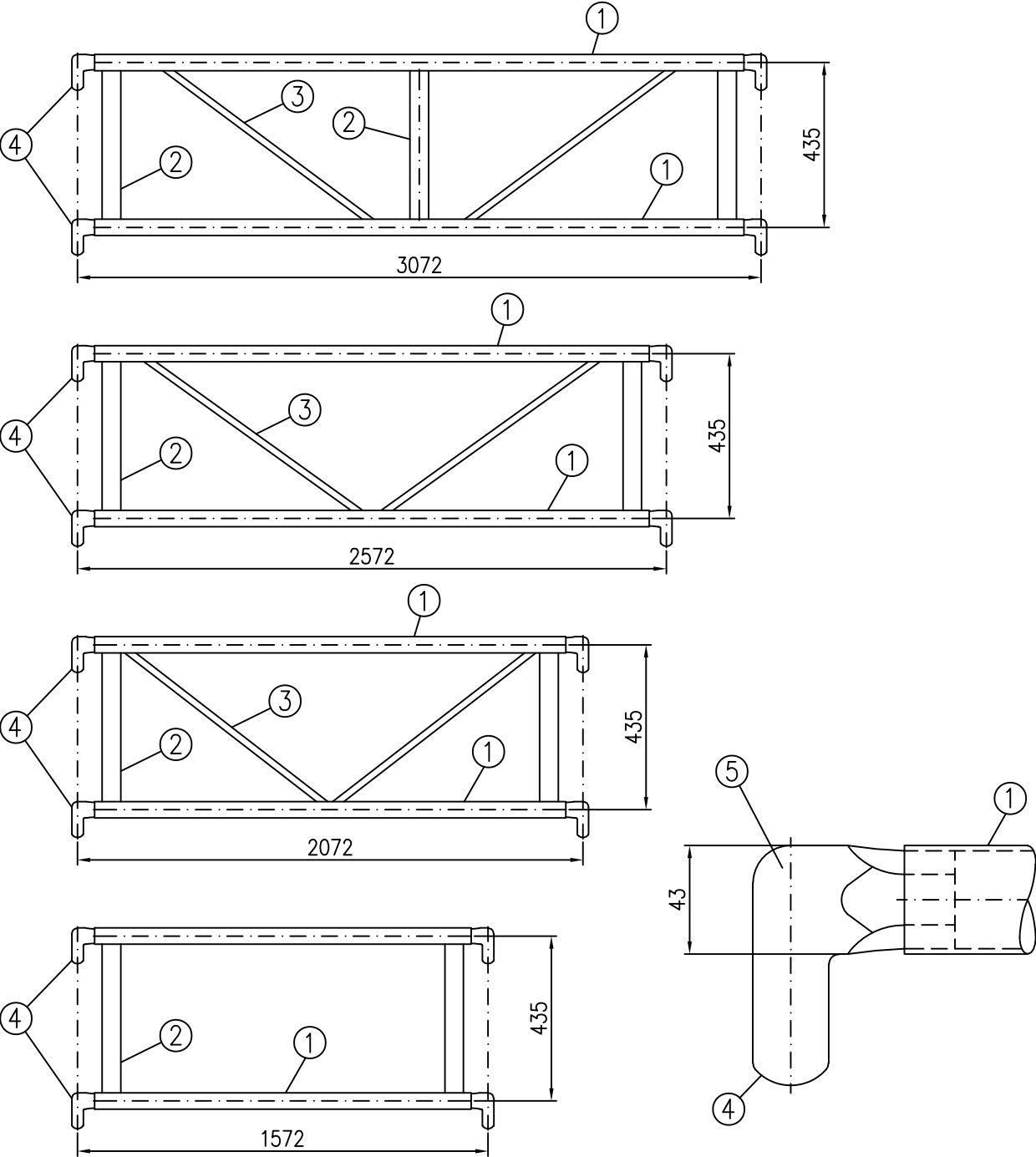
Frame scaffold ALBLITZ 100 S

Single and double guardrail (discontinued design)
in accordance with Z-8.1-16.2

ABS710-A035_AB1

12.2021

Annex A,
page 37

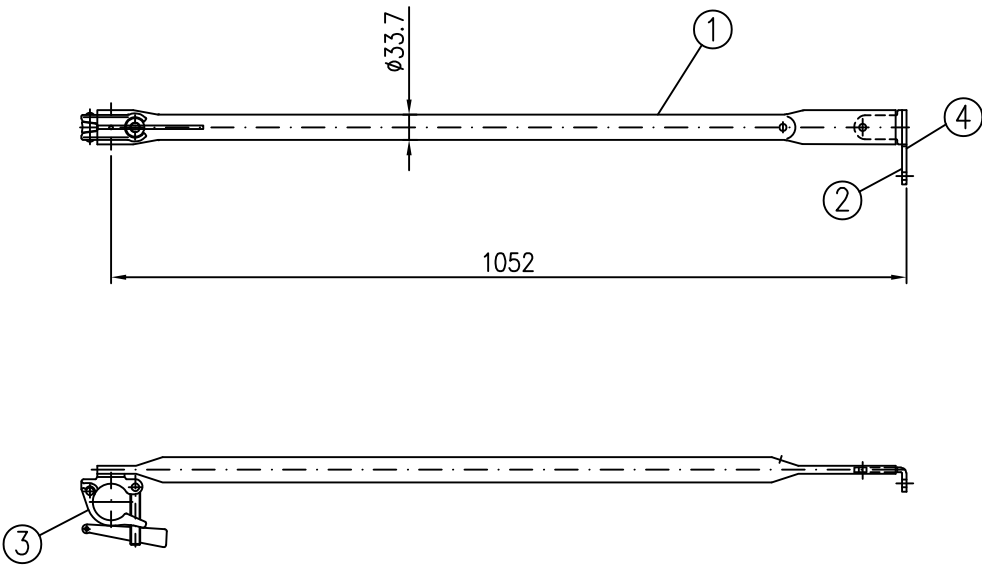


- ① Tube
- ② Rectangular tube
- ③ Oval tube
- ④ Guardrail suspension hook
- ⑤ Marking

Dimens. [m]	Weight [kg]
1.57	3.5
2.07	4.6
2.57	5.8
3.07	6.7

Frame scaffold ALBLITZ 100 S	Annex A, page 38
Aluminium double guardrail 1.57 – 3.07 m in accordance with Z-8.1-16.2	
ABS710-A037_AB1	

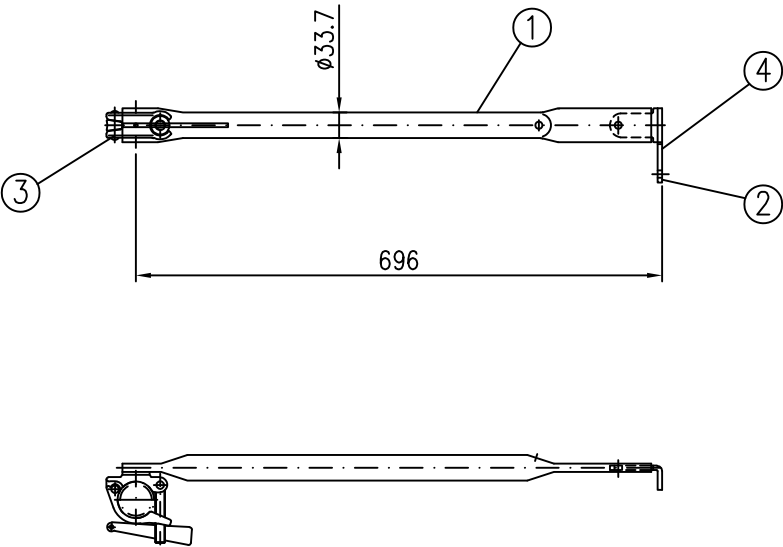
12.2021



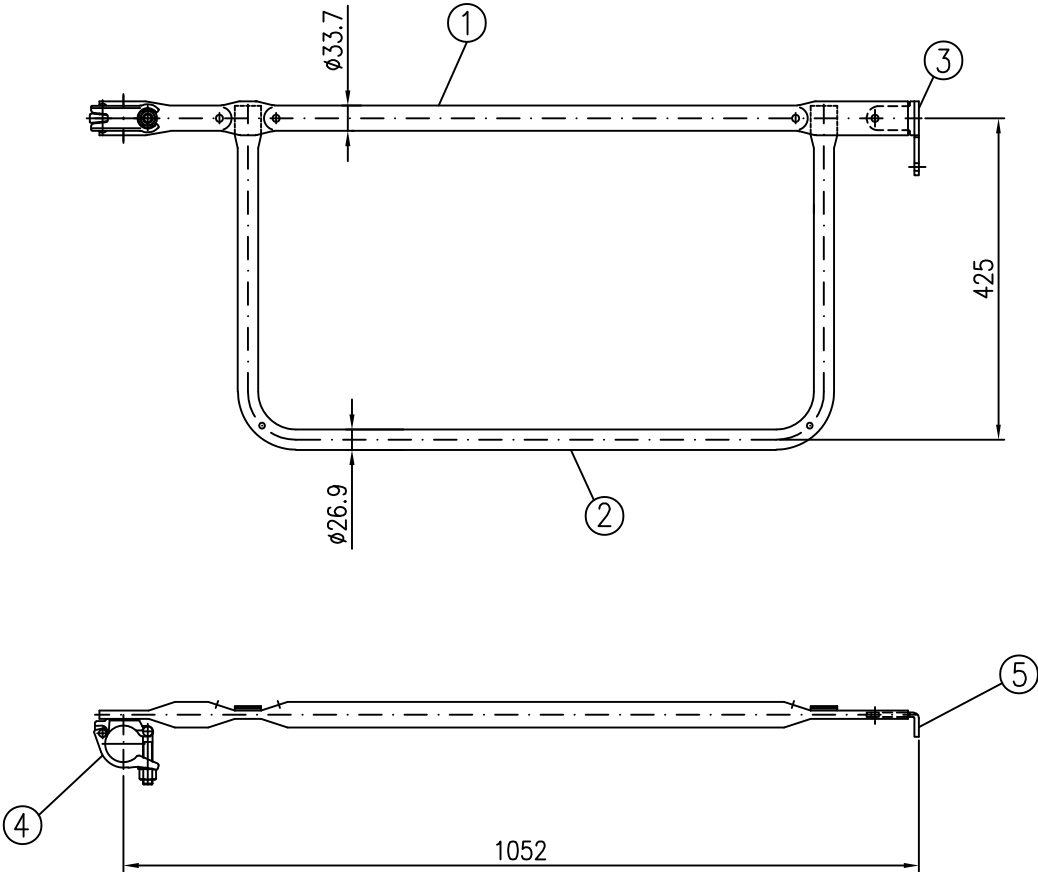
① Tube	Steel	<table><tr><td>Weight [kg]</td></tr><tr><td>3.5</td></tr></table>	Weight [kg]	3.5
Weight [kg]				
3.5				
② Guardrail suspension hook	Steel			
③ Halfcoupler with wedge-lock	in accordance with approval Z-8.331-882			
④ Marking				

Frame scaffold ALBLITZ 100 S	Annex A, page 39
End guardrail 1.09 m in accordance with Z-8.1-840	
ABS105-A038_AB1	

12.2021



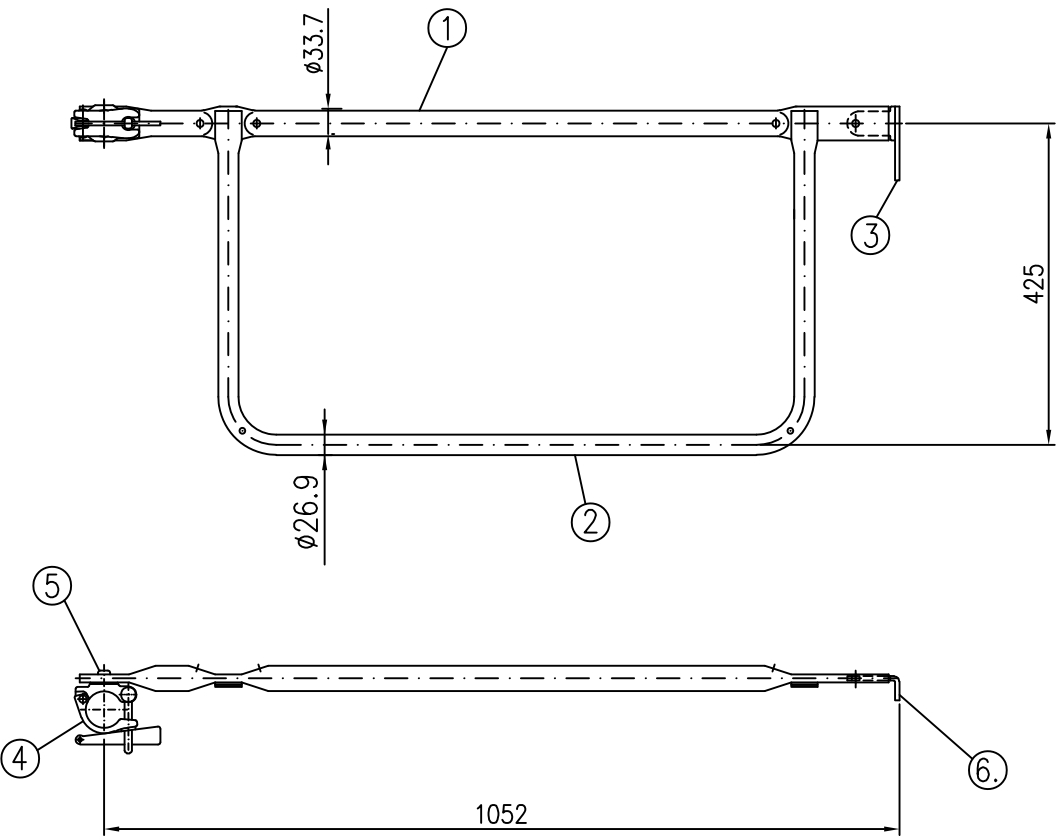
<div>① Tube</div> <div>② Guardrail suspension hook</div> <div>③ Halfcoupler with wedge-lock</div> <div>④ Marking</div>		in accordance with approval Z-8.331-882	<div>Weight</div> <div>[kg]</div> <div>2.2</div>
Frame scaffold ALBLITZ 100 S			Annex A, page 40
<div>End guardrail 0.73 m</div> <div>in accordance with Z-8.1-16.2</div>			
<div>ABS105-A039_AB1</div> <div>12.2021</div>			



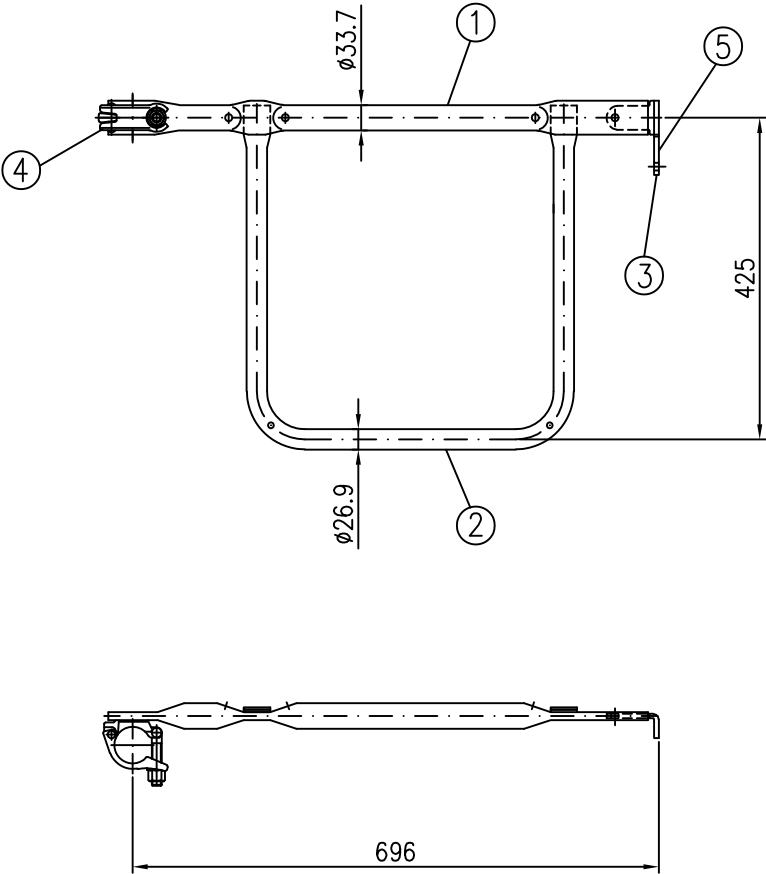
- | | |
|------------------------------|---|
| ① Tube | Steel |
| ② Tube | Steel |
| ③ Guardrail suspension hook | Steel |
| ④ Halfcoupler with screw top | in accordance with approval Z-8.331-882 |
| ⑤ Marking | |

Weight [kg]
5.6

Frame scaffold ALBLITZ 100 S	Annex A, page 41
Double end guardrail 1.09 m in accordance with Z-8.1-840	
ABS105-A040_AB112.2021	



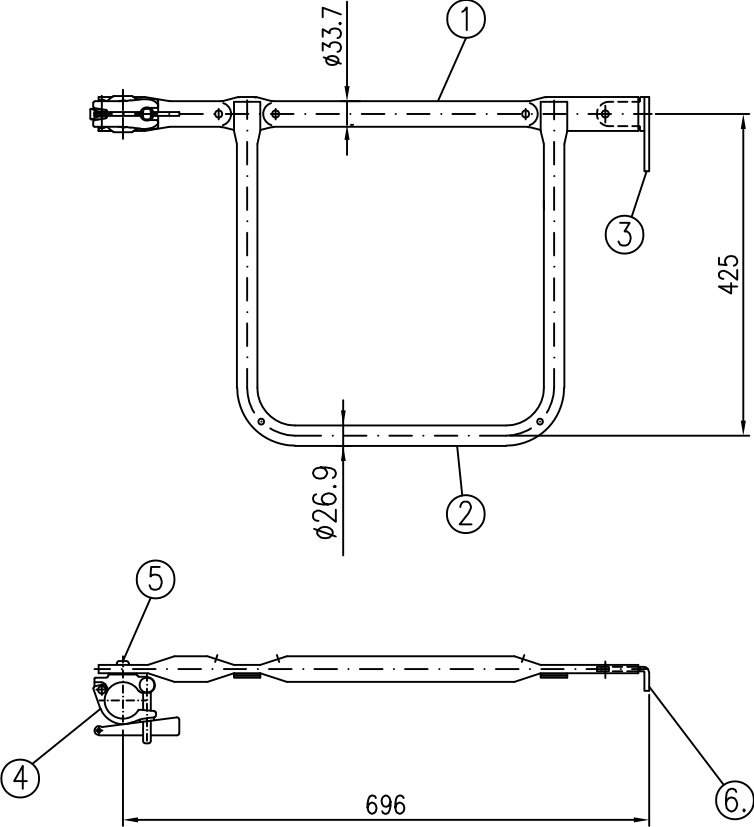
<div> <div>① Tube</div> <div>② Tube</div> <div>③ Guardrail suspension hook</div> <div>④ Halfcoupler with wedge-lock</div> <div>⑤ Cylinder head rivet</div> <div>⑥ Marking</div> </div>	<div> <div>Steel</div> <div>Steel</div> <div>Steel</div> <div>in accordance with approval Z-8.331-882</div> <div>Steel</div> <div></div> </div>	<div> <div>Only for continued use— no longer manufactured</div> <div> <div>Weight [kg]</div> <div>5.6</div> </div> </div>
<div> <div>Frame scaffold ALBLITZ 100 S</div> <div>Double end guardrail 1.09 m (discontinued design) in accordance with Z-8.1-840</div> <div>ABS105-A041_AB1</div> </div>	<div> <div>Annex A, page 42</div> <div>12.2021</div> </div>	



- ① Tube
- ② Tube
- ③ Guardrail suspension hook
- ④ Halfcoupler with screw top
- ⑤ Marking

in accordance with approval Z-8.331-882

Frame scaffold ALBLITZ 100 S		Annex A, page 43
Double end guardrail 0.73 m in accordance with Z-8.1-16.2		
ABS710-A040_AB1	12.2021	



- ① Tube
- ② Tube
- ③ Guardrail suspension hook
- ④ Halfcoupler with wedge-lock
- ⑤ Cylinder head rivet
- ⑥ Marking

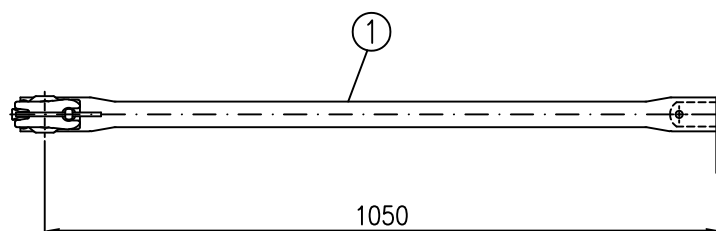
in accordance with approval Z-8.331-882

Only for continued use—
no longer manufactured

Weight [kg]
4.4

Frame scaffold ALBLITZ 100 S	Annex A, page 44
Double end guardrail 0.73 m (discontinued design) in accordance with Z-8.1-16.2 ABS710-A041_AB110.2016	

10.2016



Technical drawing of a mechanical assembly, likely a frame or support structure, showing dimensions and numbered components (1-8).

Dimensions:

- Horizontal distance from left end to center of the main rectangular section: 150
- Horizontal distance between the two vertical sections: 740
- Vertical distance between the two horizontal sections: 395
- Horizontal distance from the right end of the main rectangular section to the right end of the bottom horizontal section: 6
- Horizontal distance from the right end of the bottom horizontal section to the right end of the entire assembly: 32
- Horizontal distance from the left end of the bottom horizontal section to the right end of the entire assembly: 1050

Numbered Components:

- 1: Top horizontal section of the main rectangular frame.
- 2: Bottom horizontal section of the main rectangular frame.
- 3: A bracket or support component at the bottom left corner.
- 4: A circular component, possibly a bolt or fastener, at the bottom left corner.
- 5: A circular component, possibly a bolt or fastener, at the top right corner.
- 6: A vertical section or support at the top right corner.
- 7: A diagonal section or support connecting the top right corner to the bottom right corner.
- 8: A circular component, possibly a bolt or fastener, at the bottom left corner.

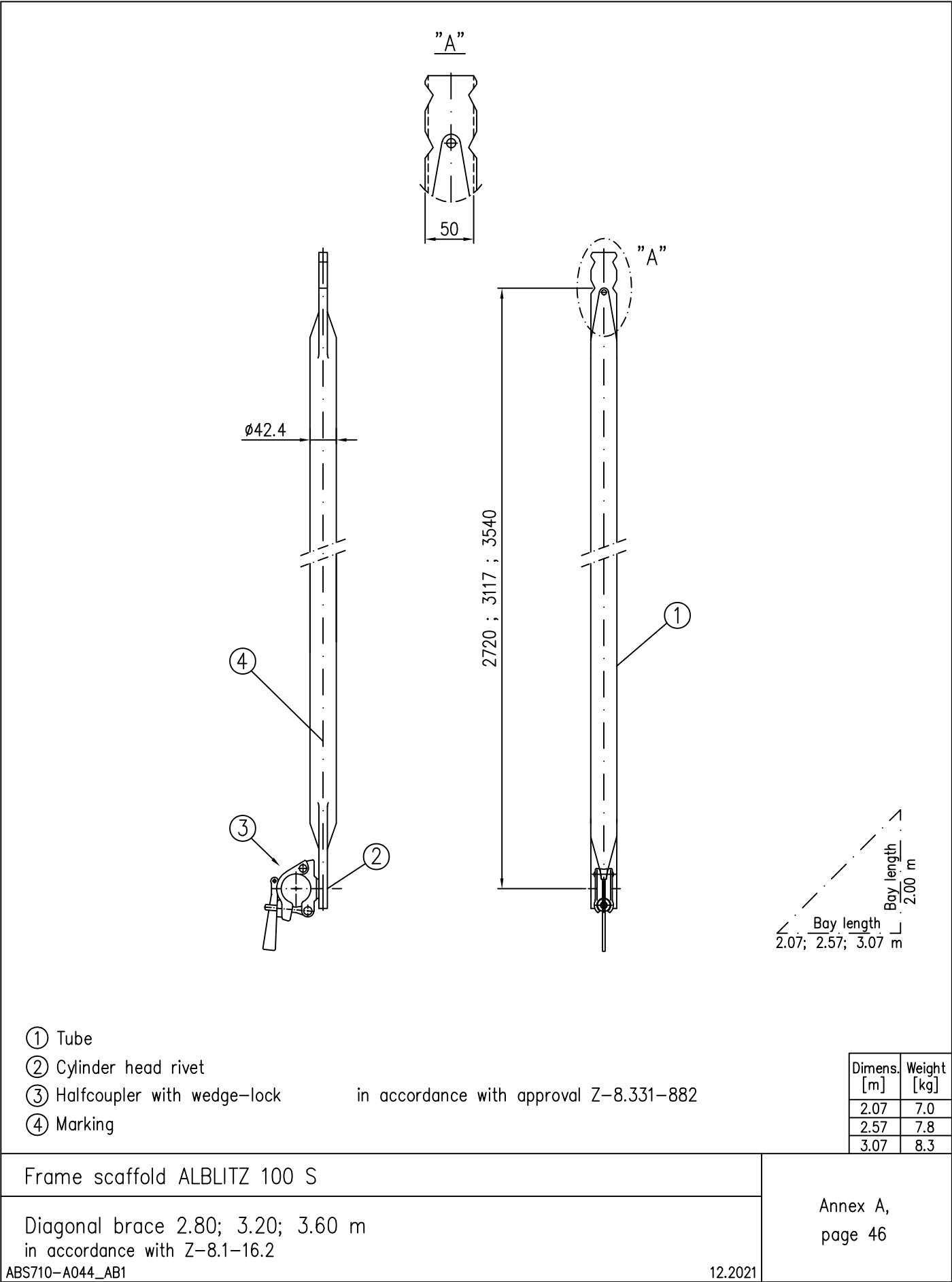
- | | | |
|----------------------------------|-------------------|---|
| ① Tube | ø33.7 x 2.9 | St 37-2 |
| ② Tube | ø26.9 x 2.6 | St 37-2 |
| ③ Wedge, captive | 29 x 11 x 5 x 140 | St 70 |
| ④ Halfcoupler for tube | ø48.3 | St 37 ; Coupler member with approval mark PA-VIII-2 |
| ⑤ Round head rivet | ø10 | |
| ⑥ Steel metal | 100 x 6 x 100 | St 37-2 |
| ⑦ Tube flattened, pressed-in lug | | |
| ⑧ riveted | | Only for contin |

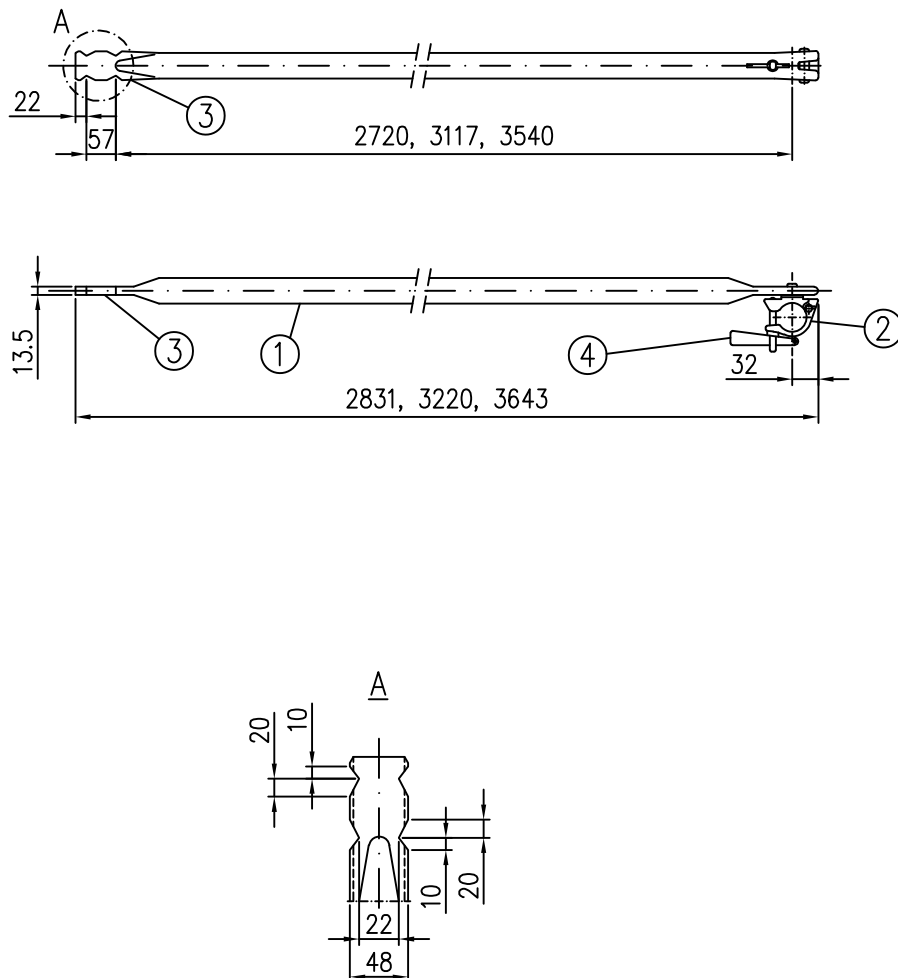
Only for continued use—
no longer manufactured

End guardrails 1.09 m, single and double
in accordance with Z-8.1-840

12.2021

Annex A,
page 45





- ① Tube $\varnothing 42.4 \times 2.6$ St37-2
- ② Wedge coupler for tube $\varnothing 48.3$ St37 Coupler member with approval mark PA-VIII-2
- ③ Tube, pressed
- ④ Wedge, captive

Only for continued use—
no longer manufactured

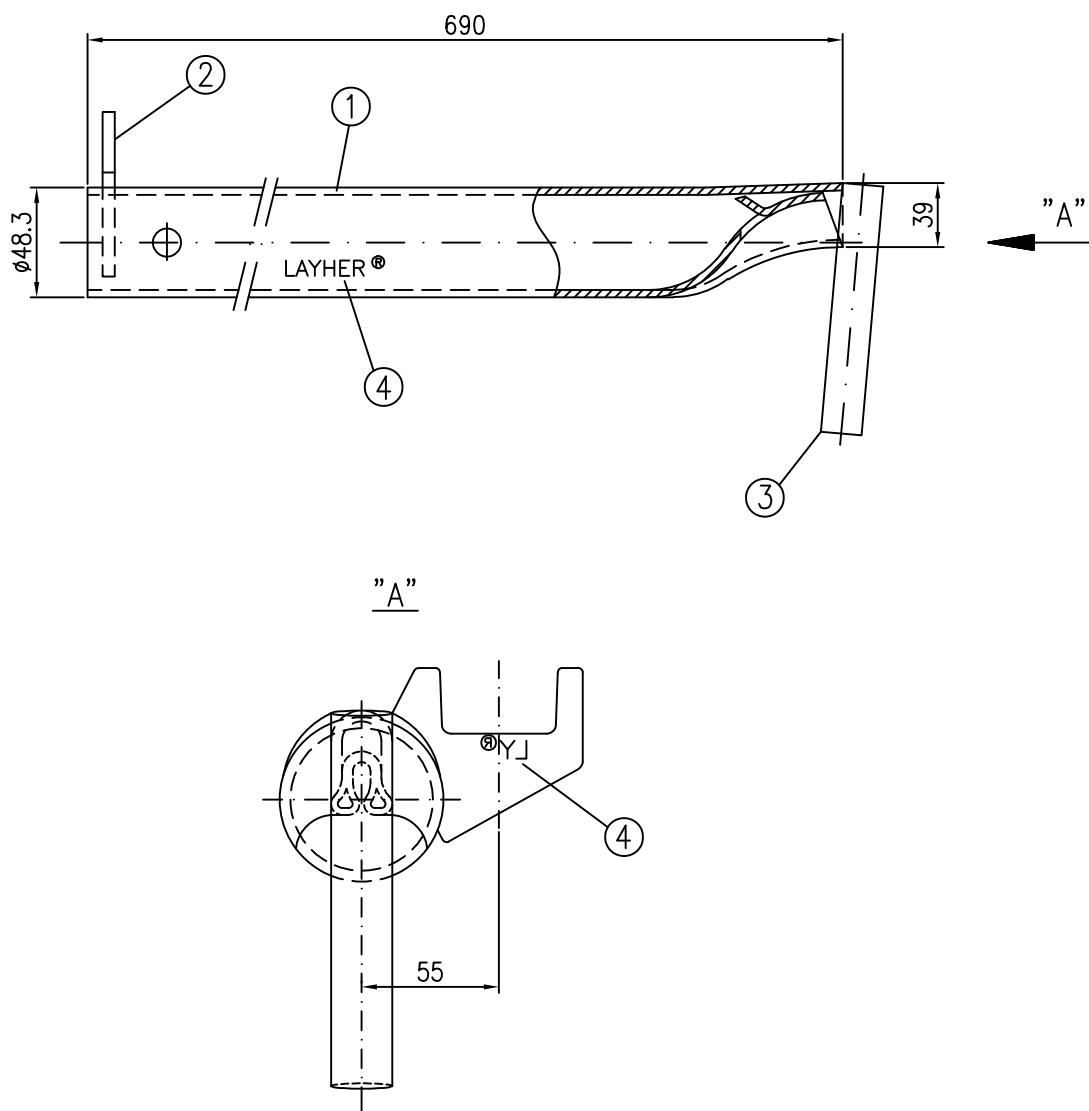
Frame scaffold ALBLITZ 100 S

Diagonal brace for 2.07; 2.57 and 3.07 m (discontinued design)
 in accordance with Z-8.1-16.2

ABS710-A046_AB1

12.2021

Annex A,
page 47



- ① Tube
- ② Anchor plate
- ③ Hook
- ④ Marking

Weight [kg]
2.8

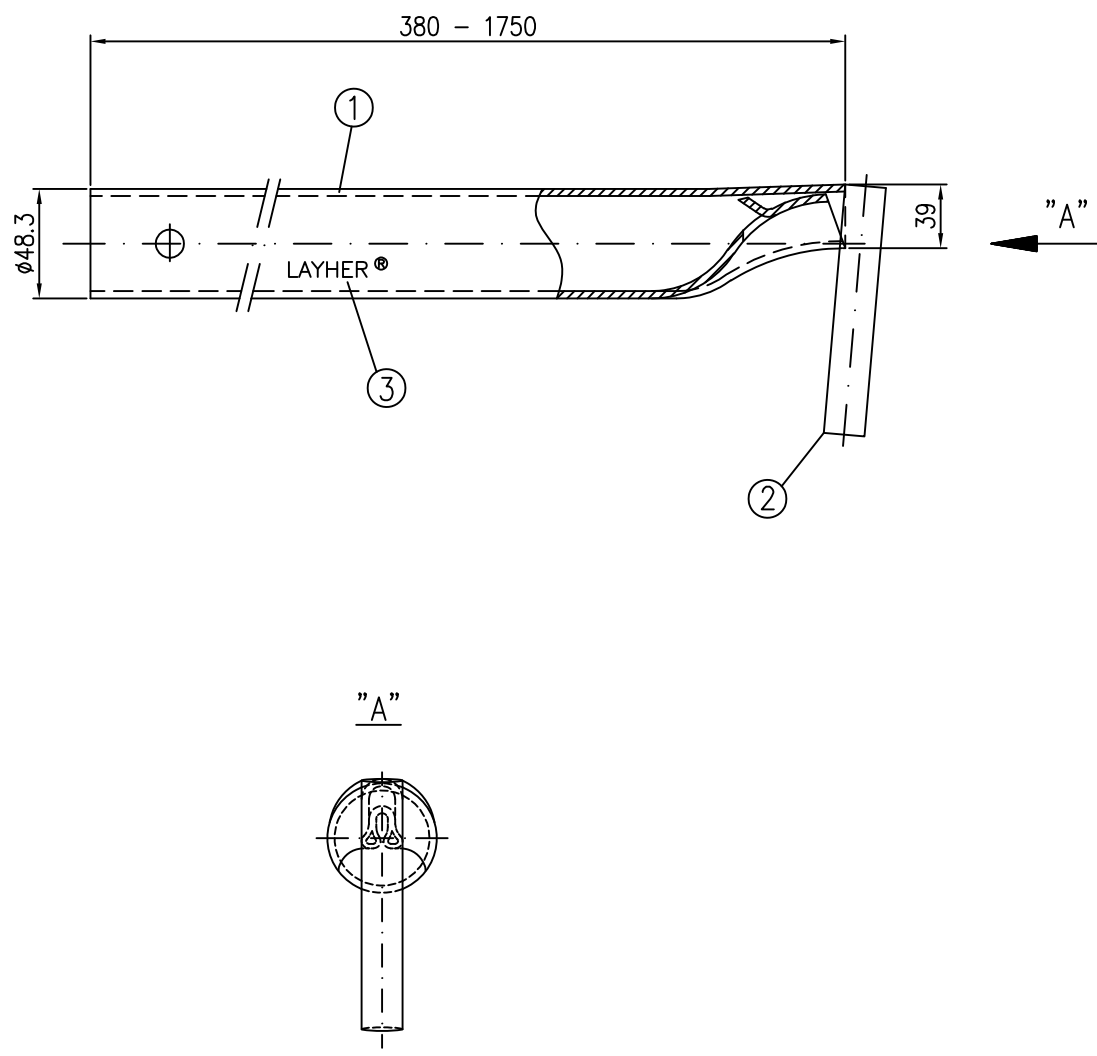
Frame scaffold ALBLITZ 100 S

Quick release anchor 0.69 m
 in accordance with Z-8.1-16.2

ABS710-A047_AB1

12.2021

Annex A,
 page 48

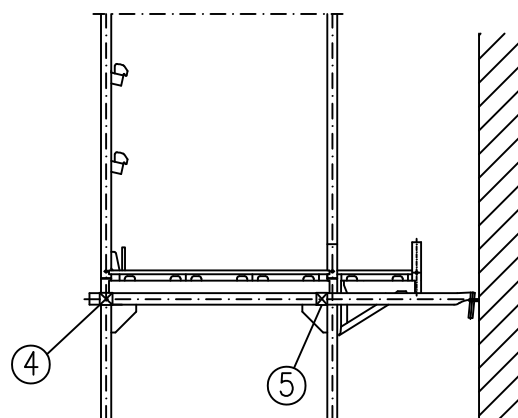
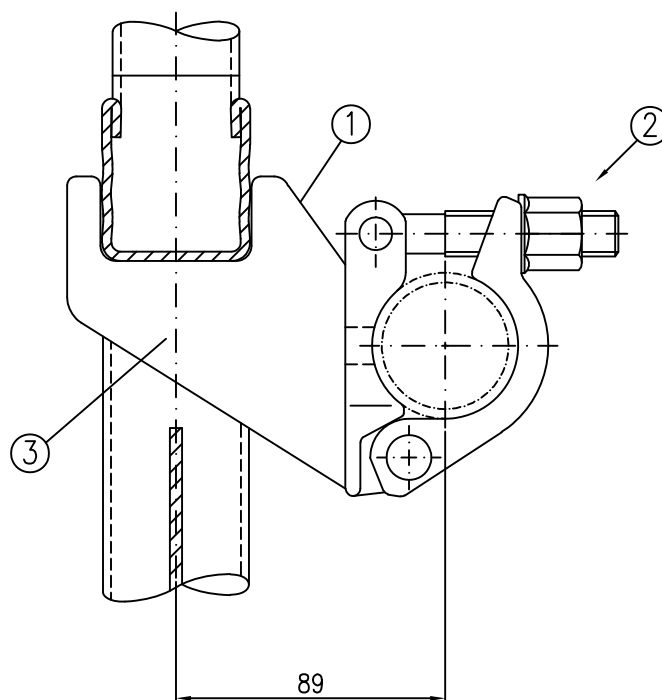


- ① Tube
- ② Hook
- ③ Marking

Dimens. [m]	Weight [kg]
0.38	1.6
0.69	2.8
0.95	3.7
1.45	5.7
1.75	5.8

Frame scaffold ALBLITZ 100 S	Annex A, page 49
Scaffold tie 0.38 – 1.75 m in accordance with Z-8.1-16.2	
ABS710-A048_AB1	

12.2021



- ① Anchor fork plate
- ② Halfcoupler with screw top
- ③ Marking
- ④ SC = Standard coupler
- ⑤ AC = Anchor coupler

in accordance with approval Z-8.331-882

Weight [kg]
1.1

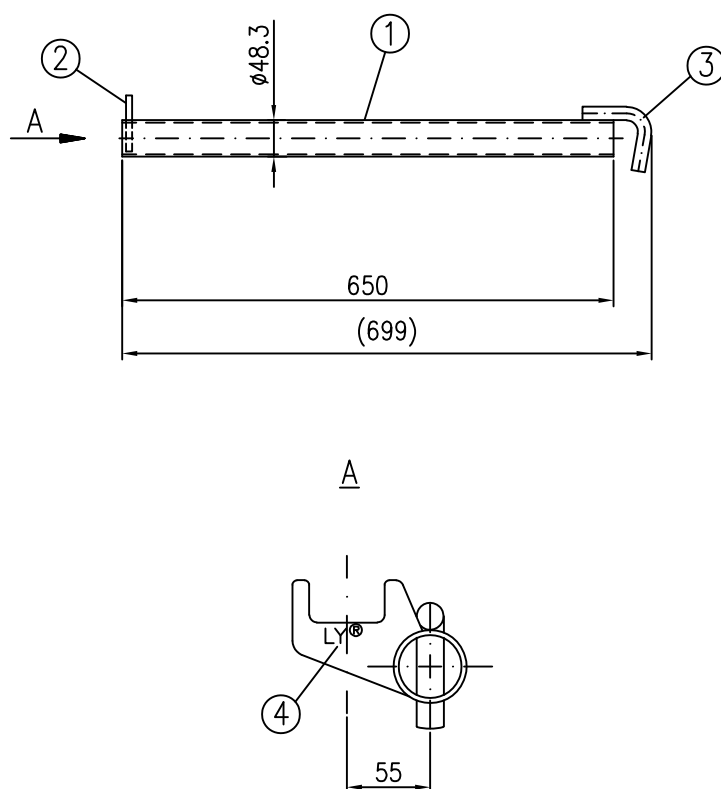
Frame scaffold ALBLITZ 100 S

Anchor coupler
 in accordance with Z-8.1-16.2

ABS710-A052_AB1

12.2021

Annex A,
 page 50



- ① Tube
- ② Anchor fork plate
- ③ Anchor hook
- ④ Marking

Only for continued use—
no longer manufactured

Weight [kg]
3.0

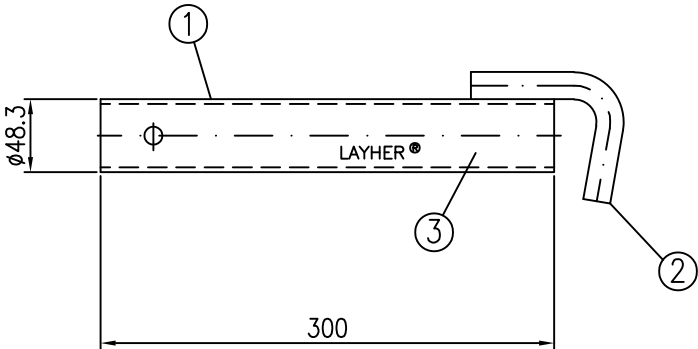
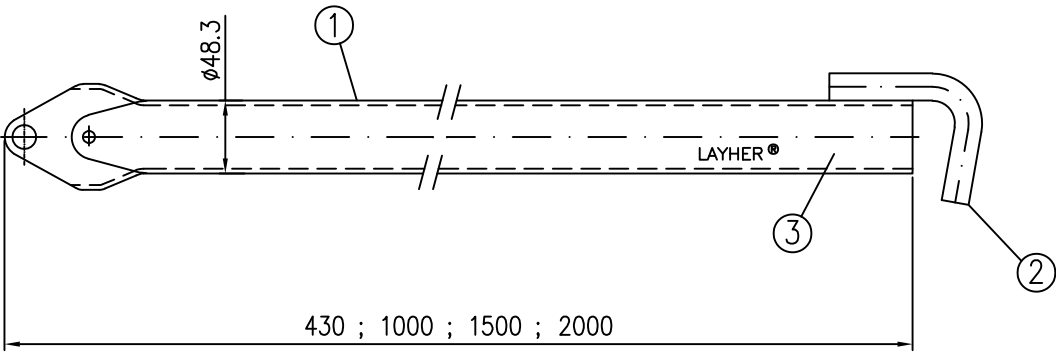
Frame scaffold ALBLITZ 100 S

Quick release anchor 0.65 m (discontinued design)
in accordance with Z-8.1-16.2

ABS710-A049_AB1

12.2021

Annex A,
page 51



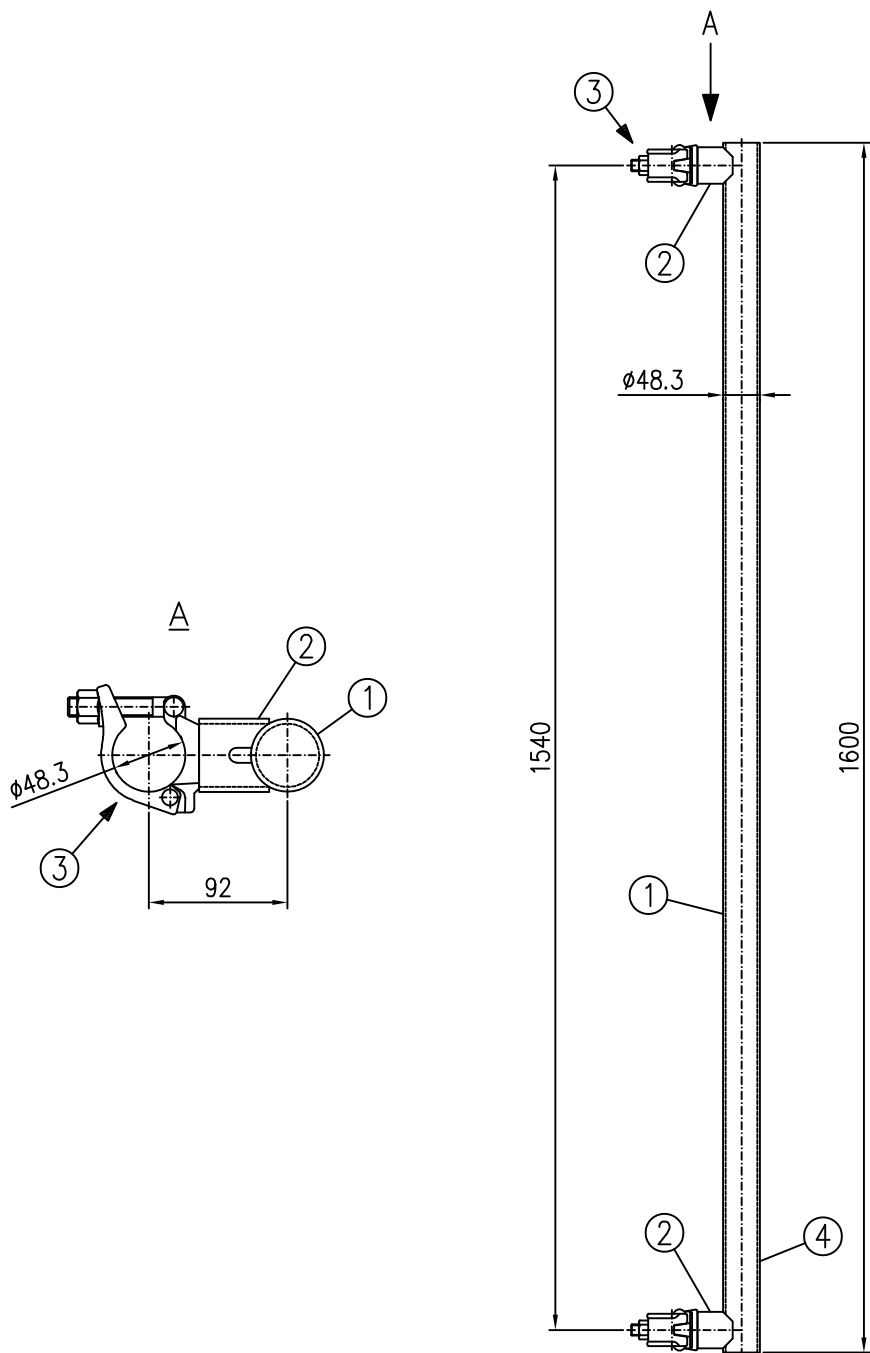
- ① Tube
- ② Anchor hook
- ③ Marking

Only for continued use—
no longer manufactured

Dimens. [m]	Weight [kg]
0.30	1.5
0.43	1.8
1.00	3.8
1.50	5.9
2.00	7.3

Frame scaffold ALBLITZ 100 S	Annex A, page 52
Scaffold tie 0.30 – 2.00 m (discontinued design) in accordance with Z-8.1-16.2 ABS710-A050_AB1	

12.2021



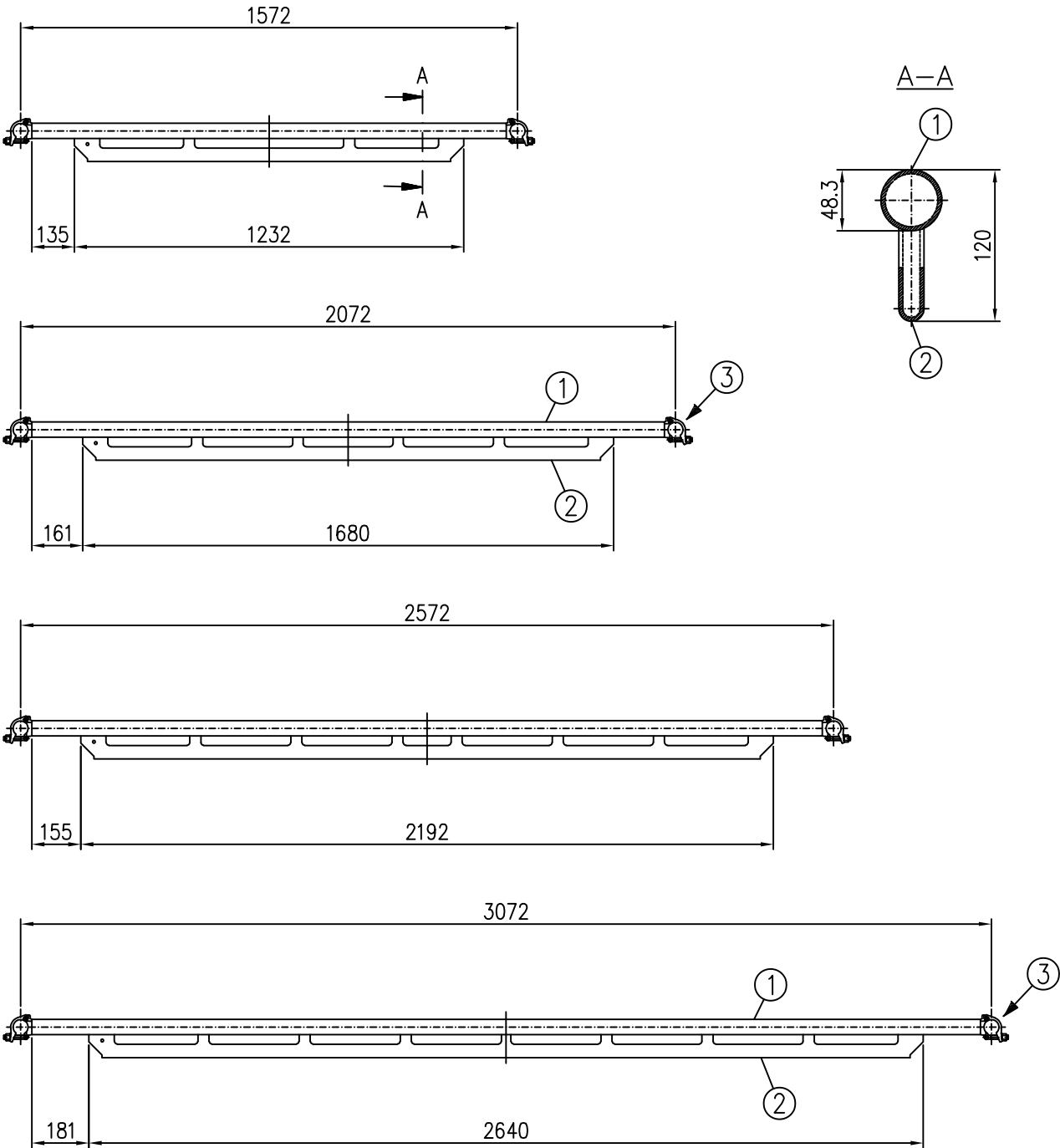
- ① Tube
- ② Tube
- ③ Halfcoupler with screw top
- ④ Marking

in accordance with approval Z-8.331-882

Weight [kg]
8.9

Frame scaffold ALBLITZ 100 S	Annex A, page 53
VARIO lightweight anchor rod in accordance with Z-8.1-16.2	
ABS121-A003_AB1	

12.2021



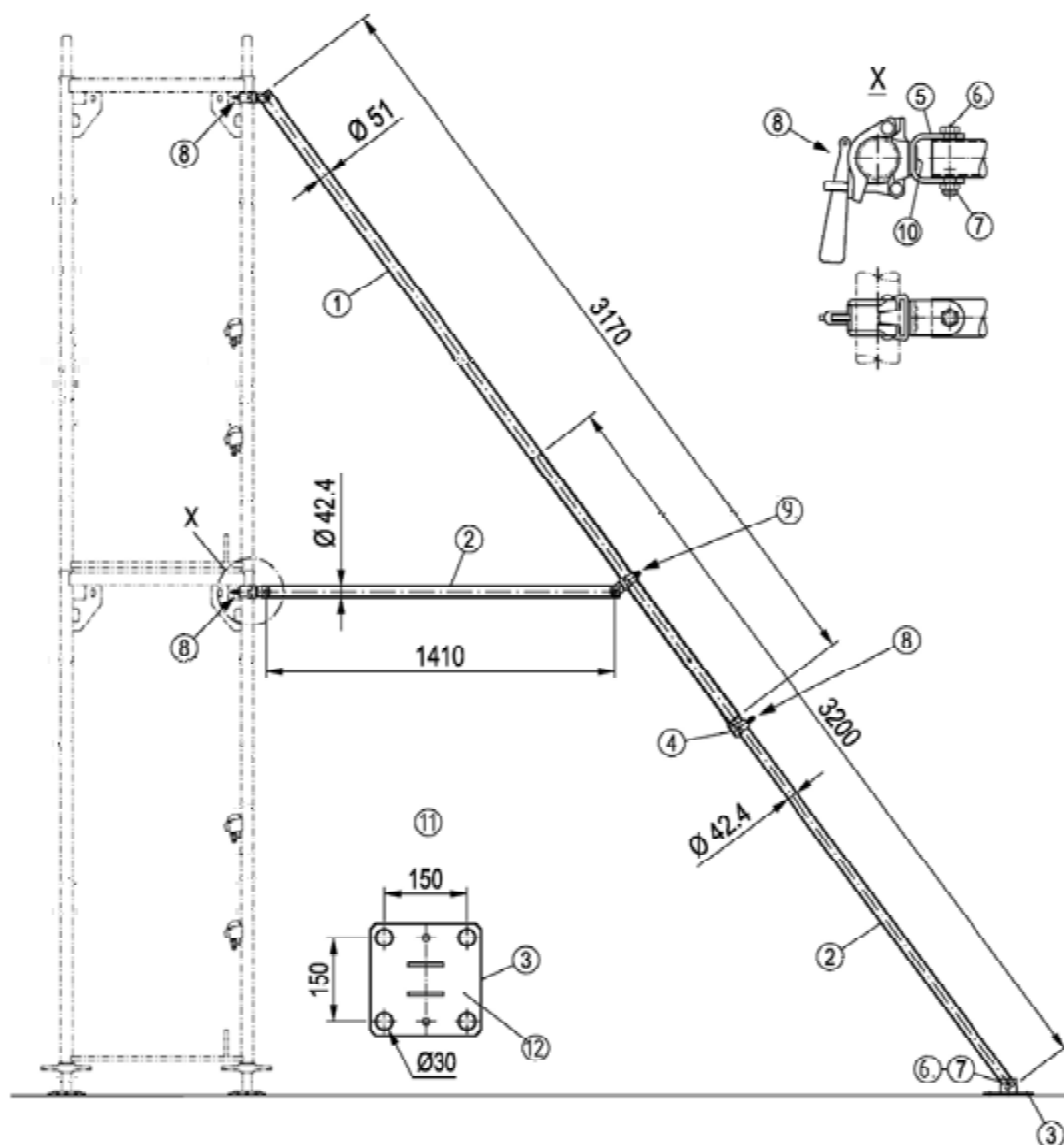
- ① Tube

② Reinforcing U

③ Halfcoupler with screw top
- in accordance with approval Z-8.331-882

Dimens. [m]	Weight [kg]
1.57	9.0
2.07	12.1
2.57	15.0
3.07	17.7

Frame scaffold ALBLITZ 100 S	Annex A, page 54
VARIO lightweight anchor ledger 1.57 – 3.07 m in accordance with Z-8.1-16.2	
ABS121-A004_AB112.2021	



- ① Tube
- ② Tube
- ③ Foot plate
- ④ Lug
- ⑤ U-edged
- ⑥ Hexagon bolt
- ⑦ Locking nut
- ⑧ Halfcoupler with wedge-lock
- ⑨ Halfcoupler with screw top
- ⑩ Cylinder head rivet
- ⑪ Plan view of foot plate
- ⑫ Marking

in accordance with approval Z-8.331-882

in accordance with approval Z-8.331-882

Weight [kg]
28.4

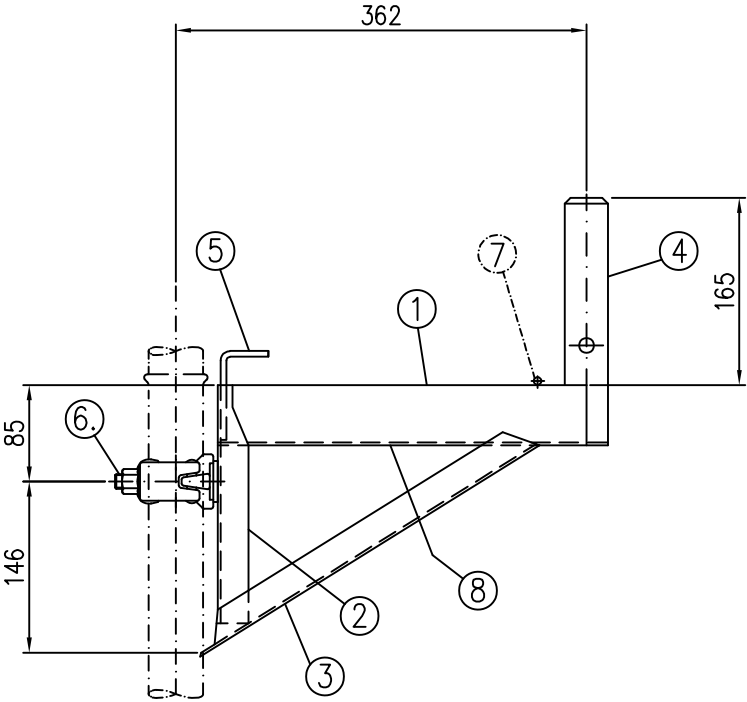
Frame scaffold ALBLITZ 100 S

Telescopic scaffold stabilizer 3.30 – 6.00 m, steel
in accordance with Z-8.1-16.2

ABS121-A005_AB1

12.2021

Annex A,
page 55



- ① U-profile

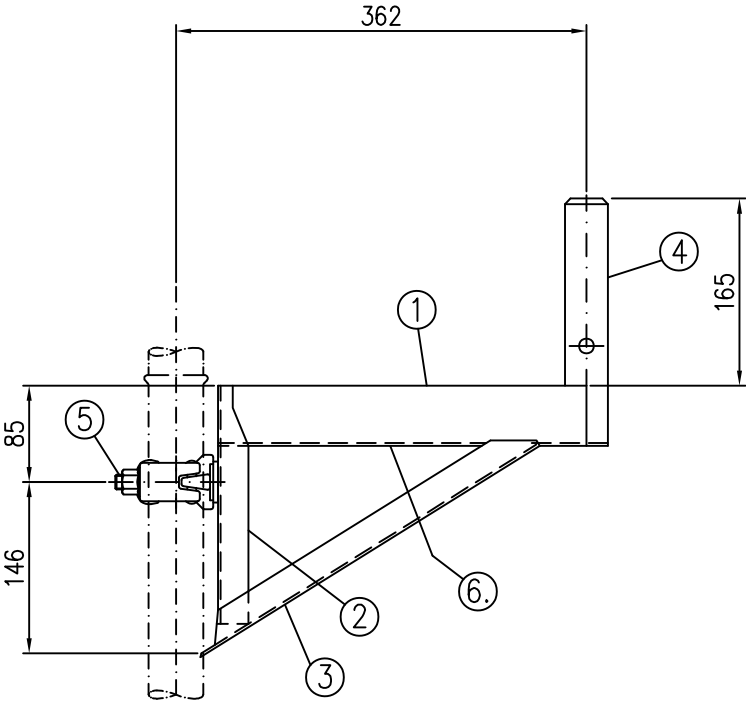
(see Annex A, pages 22, 23)
- ② Support-U
- ③ Brace-U
- ④ Tube connector
- ⑤ Angle bracket
- ⑥ Halfcoupler with screw top

in accordance with approval Z-8.331-882
- ⑦ alternatively: with pin
- ⑧ Marking

Weight [kg]
3.5

Frame scaffold ALBLITZ 100 S	Annex A, page 56
Bracket 0.36 m in accordance with Z-8.1-16.2	
ABS710-A053_AB1	

12.2021

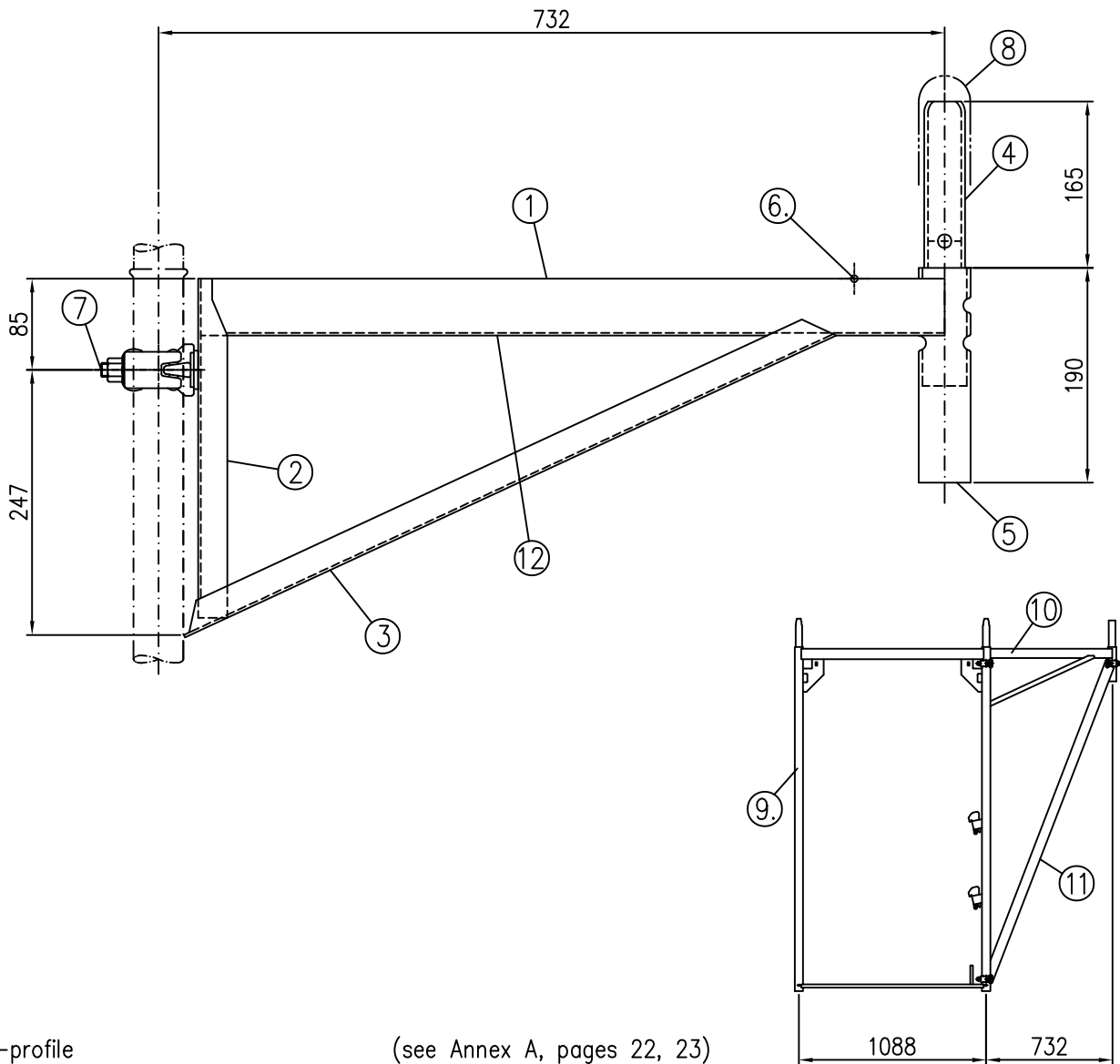


- ① U-profile (see Annex A, page 23)
- ② Support-U
- ③ Brace-U
- ④ Tube connector
- ⑤ Halfcoupler with eye bolt for tube $\varnothing 48.3$
- ⑥ Marking

Only for continued use—
no longer manufactured

Weight [kg]
3.5

Frame scaffold ABLITZ 100 S	Annex A, page 57
Bracket 0.36 m (discontinued design) in accordance with Z-8.1-16.2	
ABS710-A054_AB1	

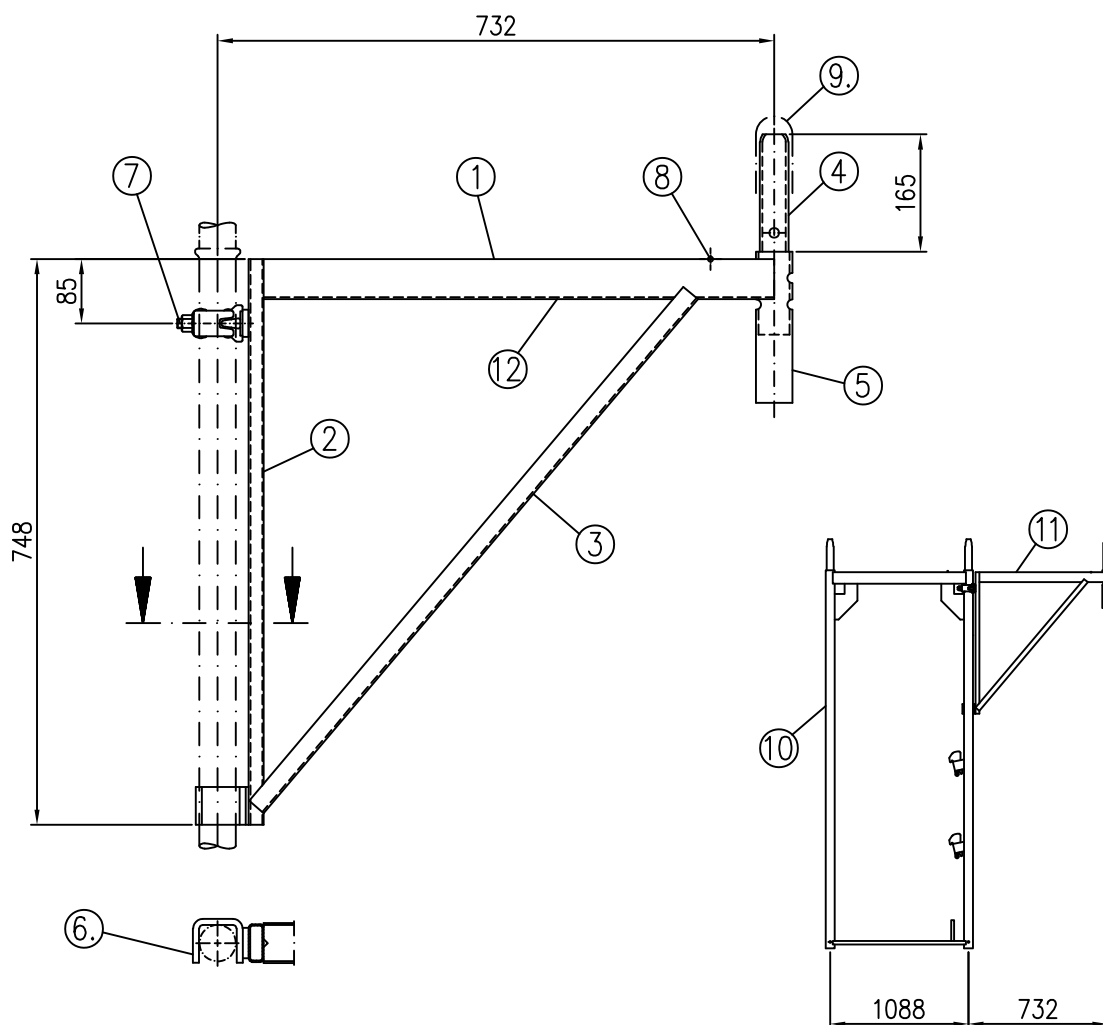


- ① U-profile
- ② Support-U
- ③ Brace-U
- ④ Tube connector
- ⑤ Tube
- ⑥ Pin
- ⑦ Halfcoupler with screw top
- ⑧ see Annex A, page 21
- ⑨ Assembly frame
- ⑩ Bracket
- ⑪ Diagonal cross brace
- ⑫ Marking

in accordance with approval Z-8.331-882

Weight [kg]
6.4

Frame scaffold ALBLITZ 100 S		Annex A, page 58
Bracket 0.73 m in accordance with Z-8.1-16.2		
ABS710-A055_AB1	12.2021	



- ① U-profile (see Annex A, pages 22, 23)
- ② Rectangular tube
- ③ Brace-U
- ④ Tube connector
- ⑤ Tube
- ⑥ Bearing-U
- ⑦ Halfcoupler with screw top
- ⑧ alternatively: with pin
- ⑨ see Annex A, page 21
- ⑩ Assembly frame
- ⑪ Bracket
- ⑫ Marking

in accordance with approval Z-8.331-882

Weight [kg]
8.8

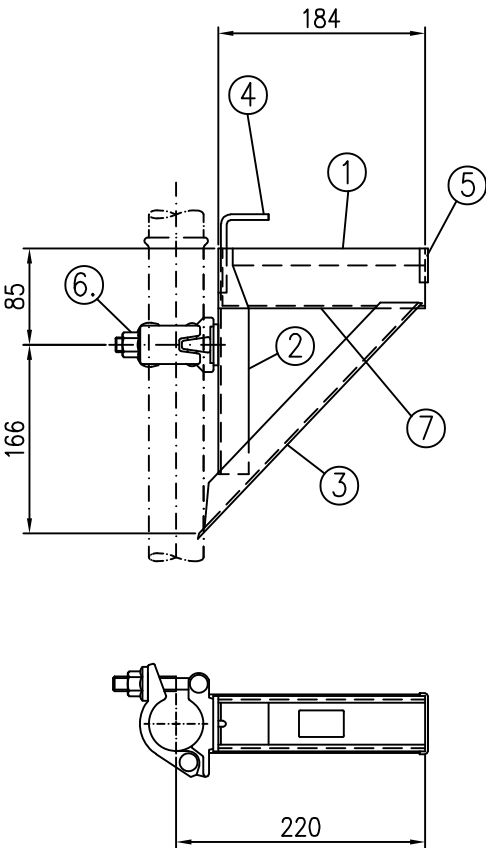
Frame scaffold ALBLITZ 100 S

Bracket 0.73 m – reinforced
in accordance with Z-8.1-16.2

ABS710-A056_AB1

12.2021

Annex A,
page 59



- ① U-profile

② Support-U

③ Brace-U

④ Angle bracket

⑤ Steel metal

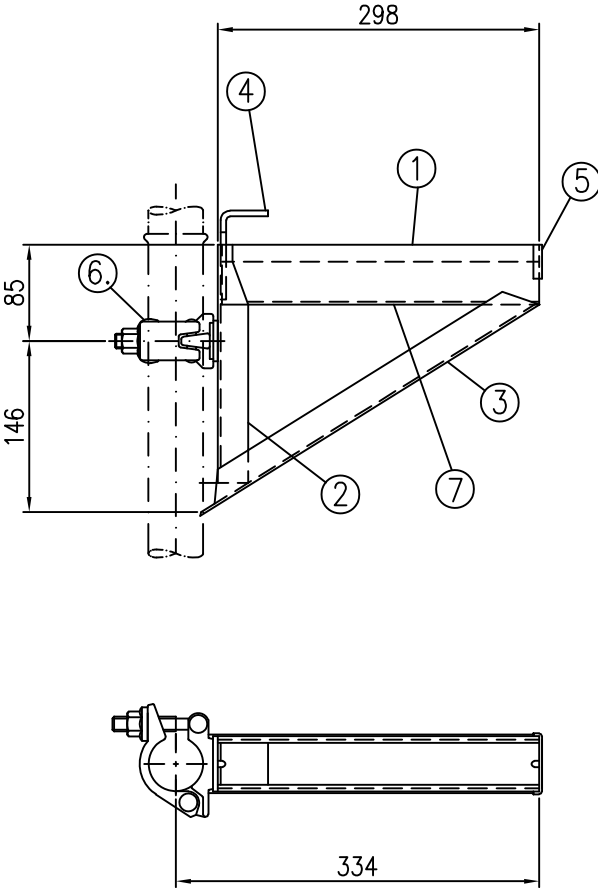
⑥ Halfcoupler with screw top

⑦ Marking
- (see Annex A, pages 22, 23)

in accordance with approval Z-8.331-882

Weight [kg]
2.8

Frame scaffold ALBLITZ 100 S	Annex A, page 60
Bracket 0.22 m without tube connector in accordance with Z-8.1-16.2	
ABS717-A212_AB112.2021	



- ① U-profile

② Support-U

③ Brace-U

④ Angle bracket

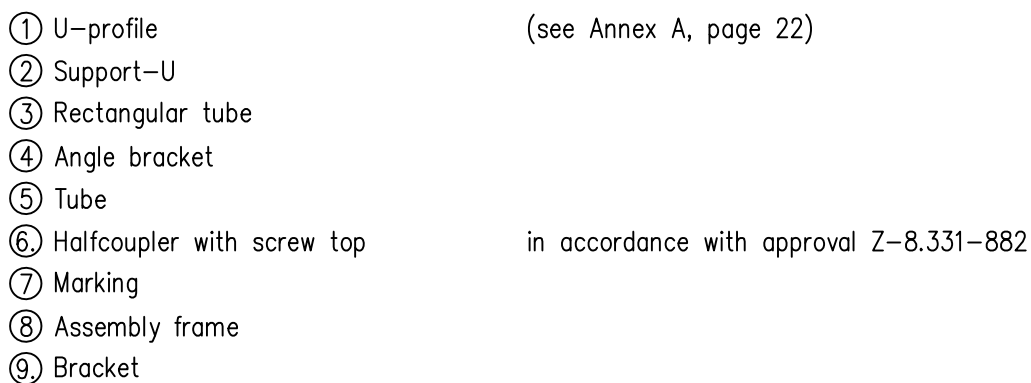
⑤ Steel metal

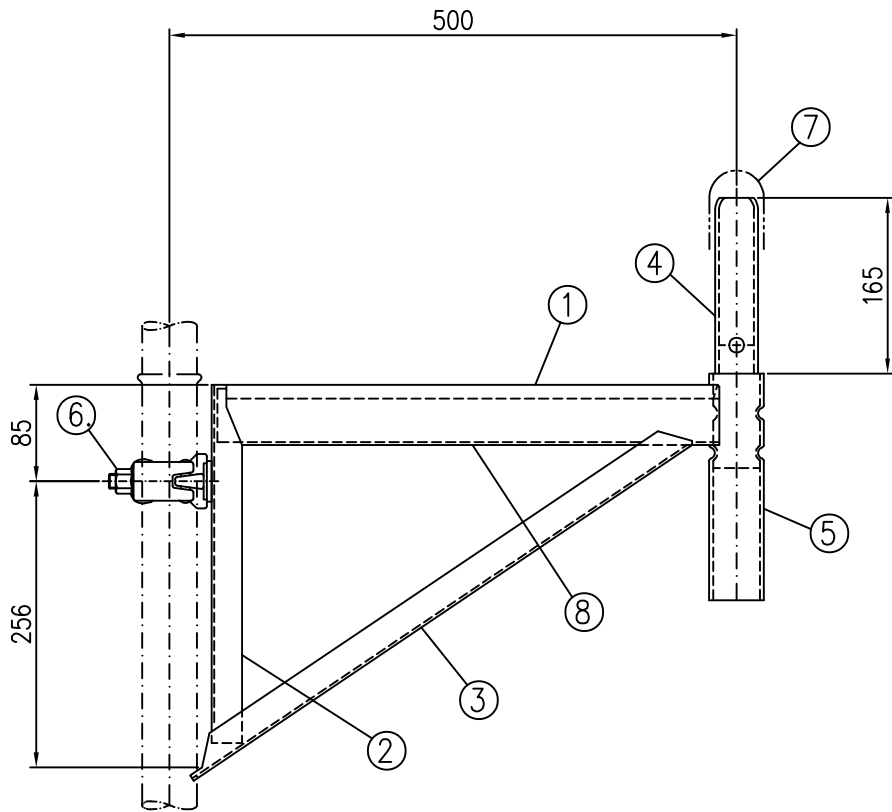
⑥ Halfcoupler with screw top

⑦ Marking
- (see Annex A, pages 22, 23)

in accordance with approval Z-8.331-882

(6) Halfcoupler with screw top in accordance with approval Z-8.331-882		Weight [kg]
(7) Marking		
Frame scaffold ALBLITZ 100 S		Annex A, page 61
Bracket 0.36 m without tube connector in accordance with Z-8.1-16.2		
ABS717-A213_AB1	12.2021	

1.8.1-82/21



- ① U-profile
- ② Support-U
- ③ Brace-U
- ④ Tube connector
- ⑤ Tube
- ⑥ Halfcoupler with screw top
- ⑦ see Annex A, page 21
- ⑧ Marking

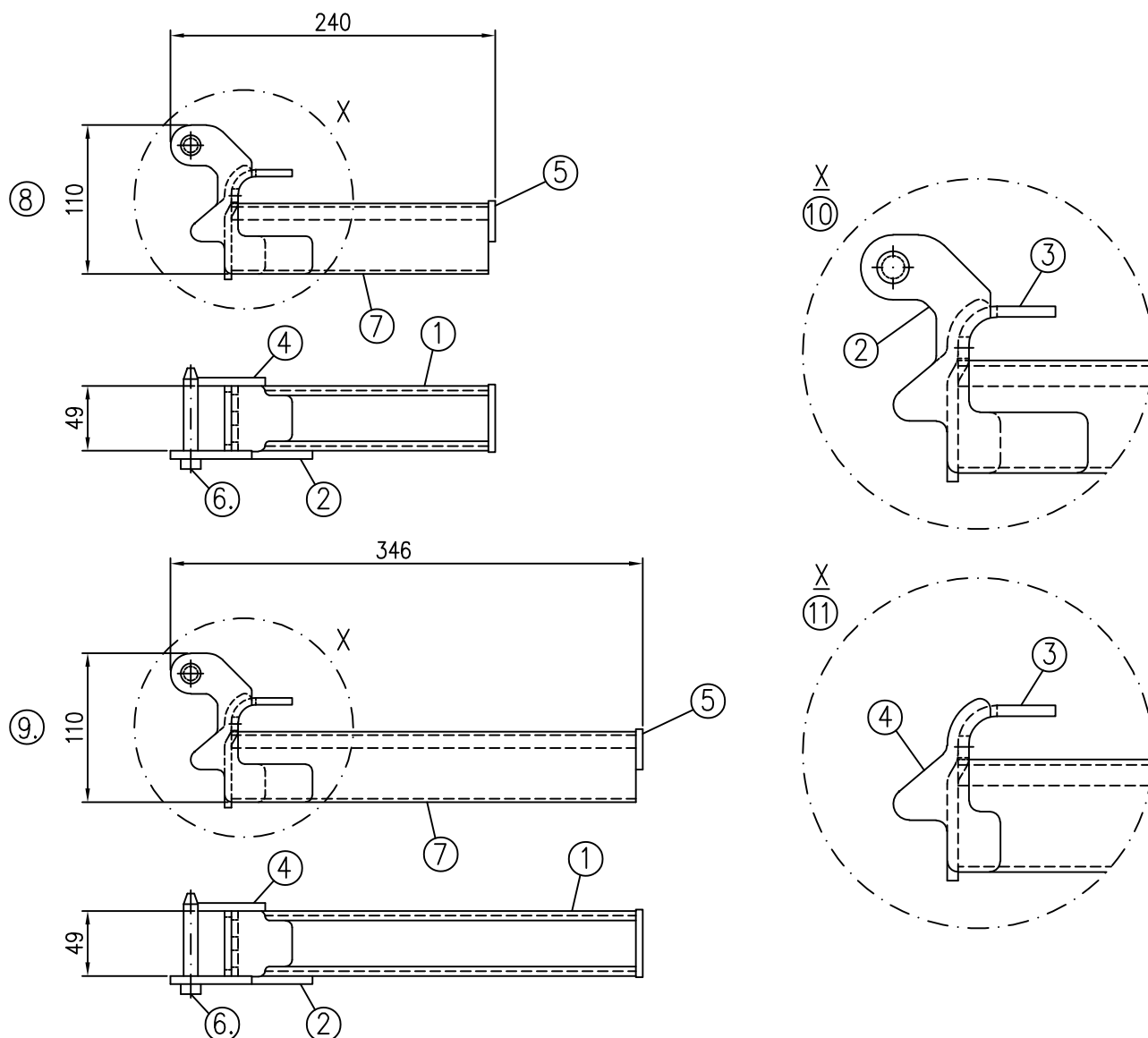
(see Annex A, pages 22, 23)

in accordance with approval Z-8.331-882

Weight [kg]
5.8

Frame scaffold ALBLITZ 100 S	Annex A, page 63
Bracket 0.50 m in accordance with Z-8.1-16.2	
ABS717-A214_AB1	

12.2021



- ① U-profile (see Annex A, page 22)
- ② Connector plate
- ③ End plate
- ④ Support plate
- ⑤ Steel metal
- ⑥ Pin
- ⑦ Marking
- ⑧ Plug-in bracket 0.22 m
- ⑨ Plug-in bracket 0.36 m
- ⑩ Front view
- ⑪ Rear view

Dimens. [m]	Weight [kg]
0.22	1.3
0.36	1.6

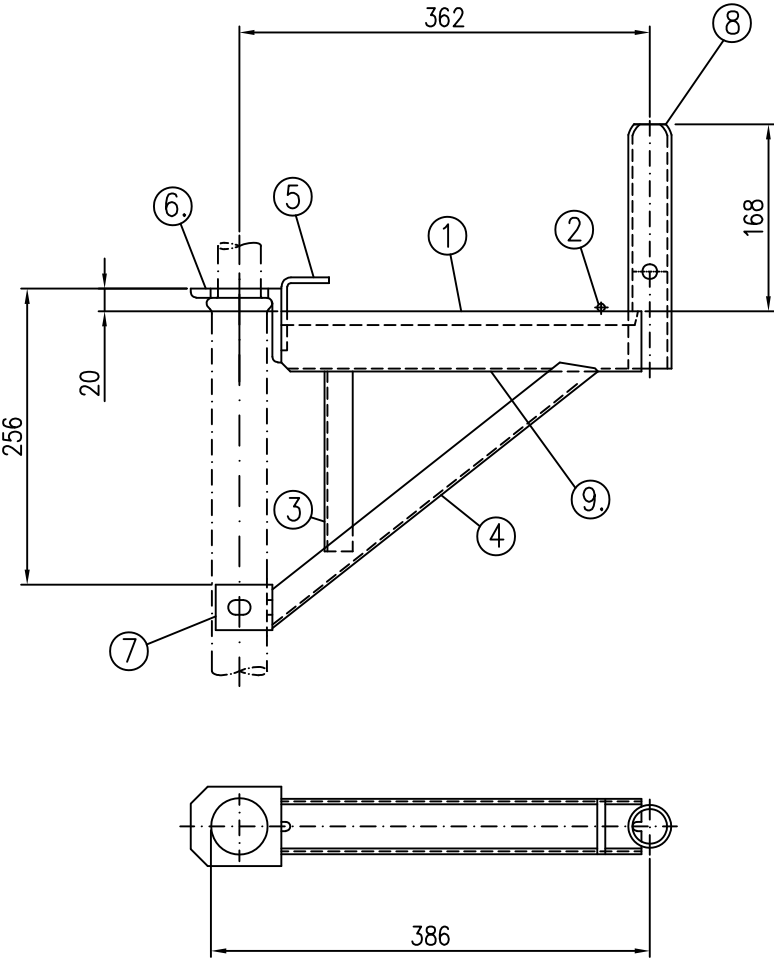
Frame scaffold ALBLITZ 100 S

Plug-in bracket 0.22 m; 0.36 m
in accordance with Z-8.1-16.2

ABS717-A218_AB1

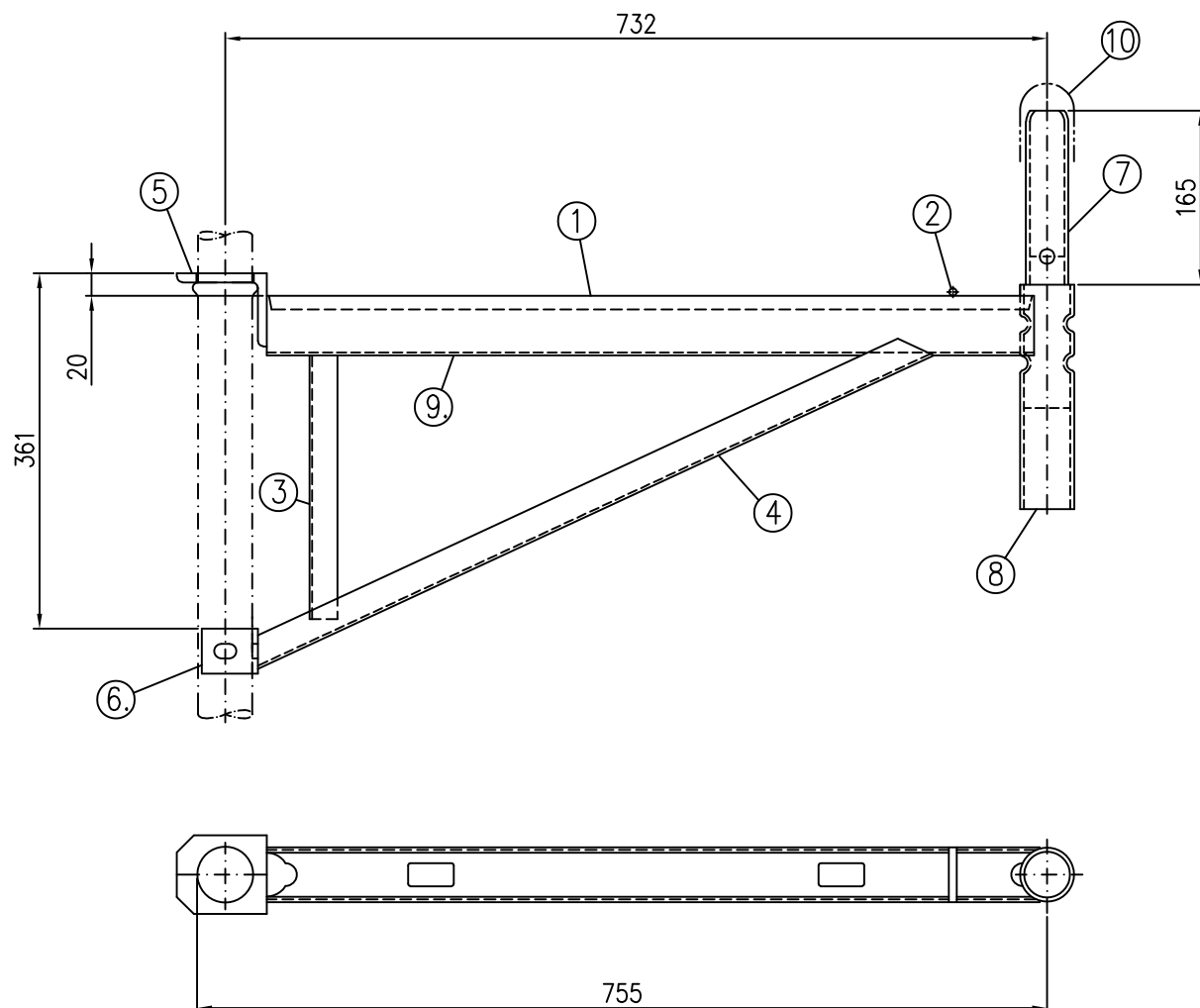
12.2021

Annex A,
page 64



- ① U-profile (see Annex A, page 22)
- ② Pin
- ③ Support-U
- ④ Brace-U
- ⑤ Angle bracket
- ⑥ Angle bracket
- ⑦ U-edged
- ⑧ Tube connector
- ⑨ Marking

(8) Tube connector		Weight [kg]
(9) Marking		
Frame scaffold ALBLITZ 100 S		3.5
Bracket 0.36 m with swivel base in accordance with Z-8.1-16.2		Annex A, page 65
ABS717-A219_AB1	12.2021	



- ① U-profile (see Annex A, page 22)
- ② Pin
- ③ Support-U
- ④ Brace-U
- ⑤ Angle bracket
- ⑥ U-edged
- ⑦ Tube connector
- ⑧ Tube
- ⑨ Marking
- ⑩ see Annex A, page 21

Weight [kg]
7.0

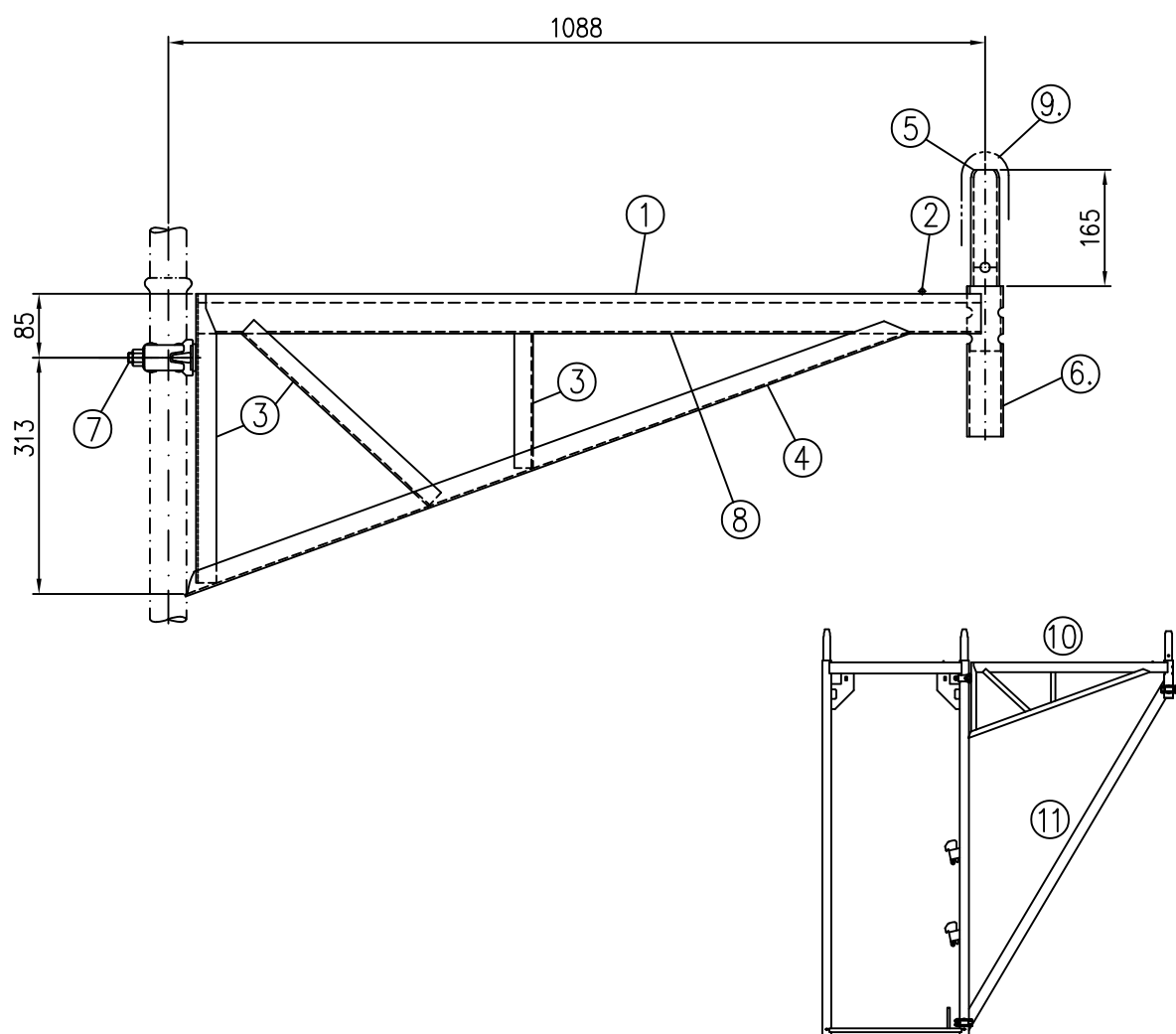
Frame scaffold ALBLITZ 100 S

Bracket 0.73 m with swivel base
in accordance with Z-8.1-16.2

ABS717-A220_AB1

12.2021

Annex A,
page 66



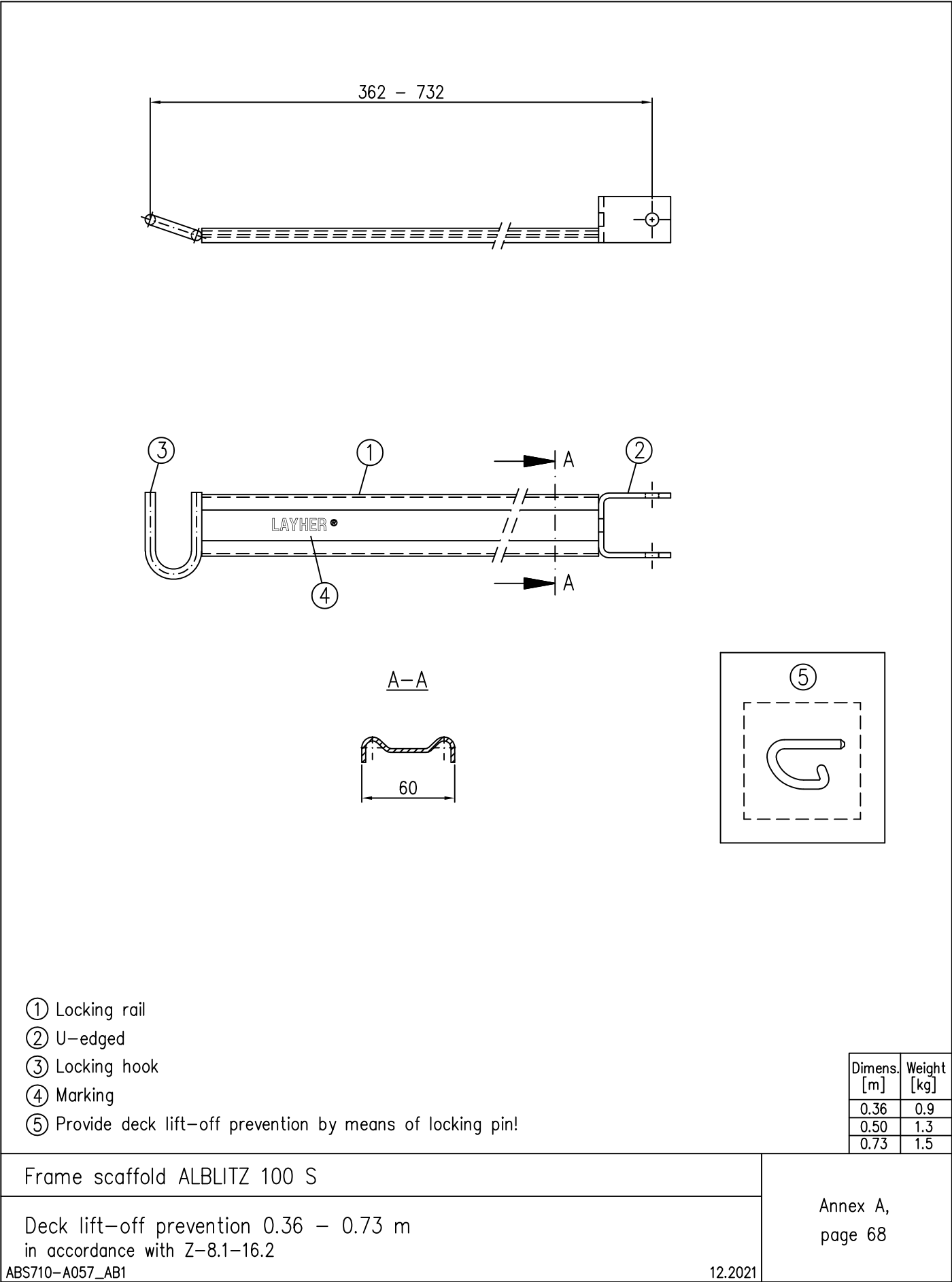
- ① U-profile

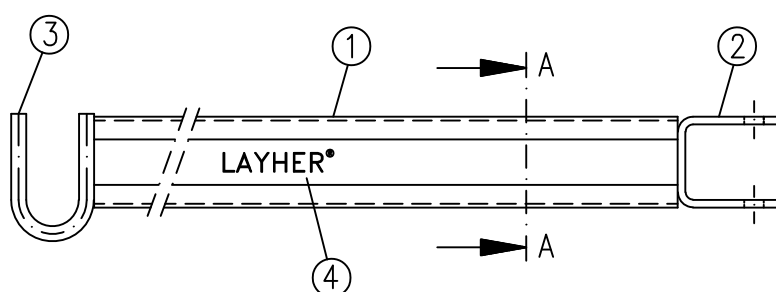
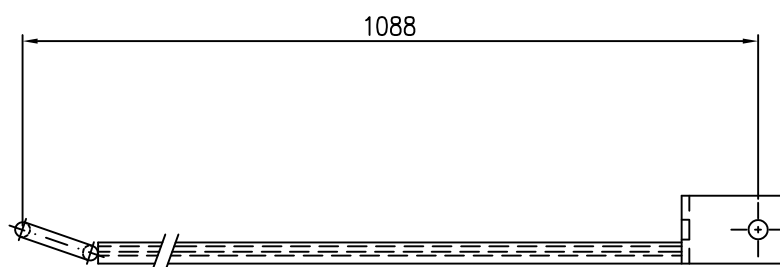
(see Annex A, pages 22, 23)
- ② Pin
- ③ Support-U
- ④ Brace-U
- ⑤ Tube connector
- ⑥ Tube
- ⑦ Halfcoupler with screw top

in accordance with approval Z-8.331-882
- ⑧ Marking
- ⑨ see Annex A, page 21
- ⑩ Bracket
- ⑪ Diagonal cross brace

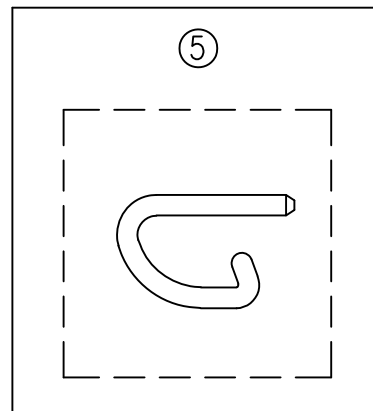
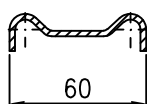
Weight [kg]
9.6

Frame scaffold ALBLITZ 100 S		Annex A, page 67
Bracket 1.09 m in accordance with Z-8.1-16.2		
ABS717-A221_AB1	12.2021	





A-A



- | | | |
|---|---------|-------------------------|
| ① Locking rail | t=2.5 | DIN EN 10025-2 – S235JR |
| ② U-edged | 63x70x5 | DIN EN 10025-2 – S235JR |
| ③ Locking hook | ø10 | DIN EN 10025-2 – S235JR |
| ④ Marking | | |
| ⑤ Provide deck lift-off prevention by means of locking pin! | | |

Weight [kg]
2.3

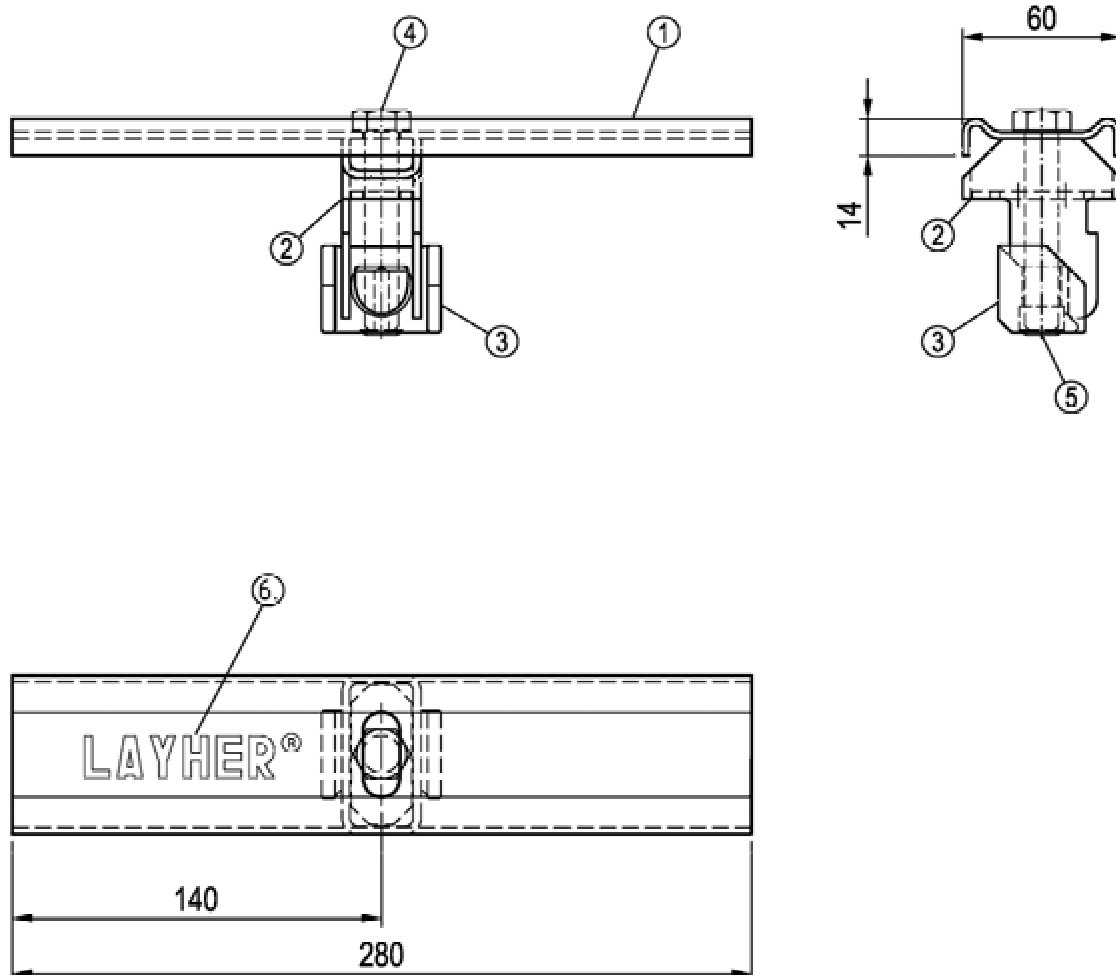
Frame scaffold ALBLITZ 100 S

Deck lift-off prevention 1.09 m
in accordance with Z-8.1-840

ABS105-A059_AB1

12.2021

Annex A,
page 69



- ① Rail
- ② Rectangular tube
- ③ Clamp slider
- ④ Hexagon bolt
- ⑤ Blind rivet
- ⑥ Marking

Weight [kg]
1.0

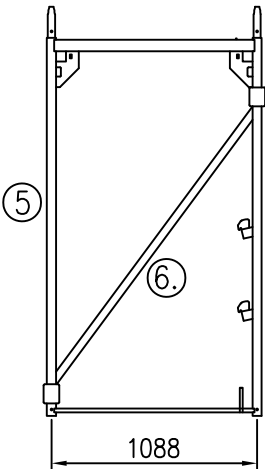
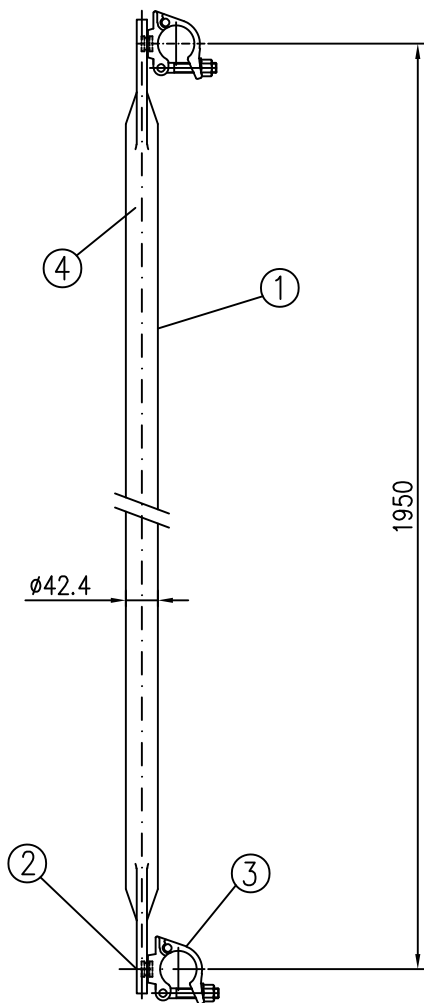
Frame scaffold ALBLITZ 100 S

Universal U-deck lift-off preventer
in accordance with Z-8.22-939

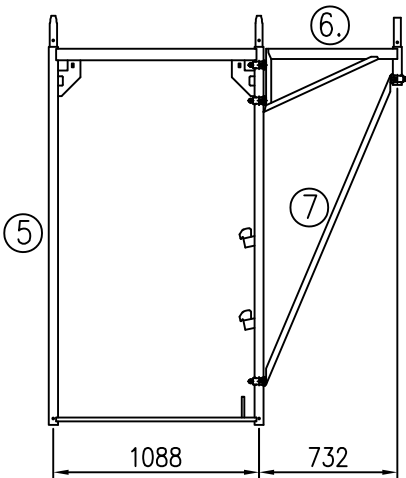
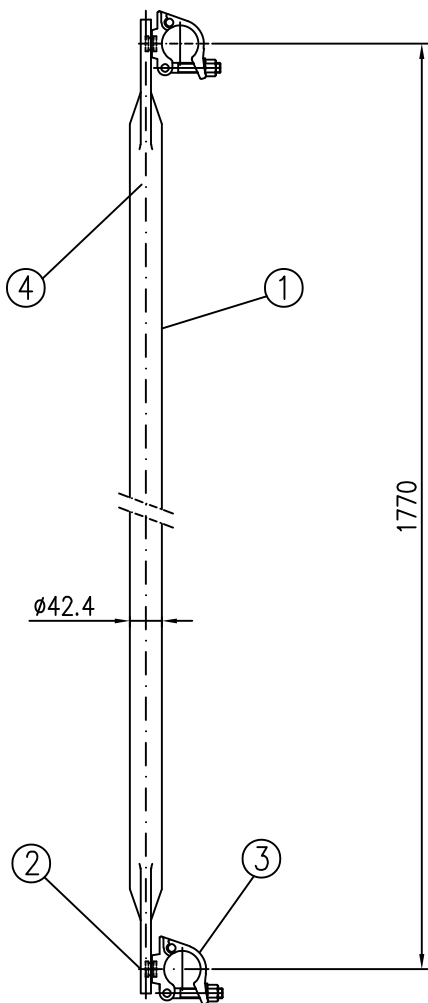
ABS121-A007_AB1

12.2021

Annex A,
page 70



① Tube	Ø42.4x2.0	EN 10219–S235JRH	<table><tr><td>Weight [kg]</td></tr><tr><td>6.4</td></tr></table>	Weight [kg]	6.4
Weight [kg]					
6.4					
② Cylinder head rivet	Ø16x20	EN 10263–2			
③ Halfcoupler with screw top	in accordance with approval Z–8.331–882				
④ Marking					
⑤ Assembly frame					
⑥ Diagonal cross brace					
Frame scaffold ALBLITZ 100 S			Annex A, page 71		
Diagonal cross brace 1.95 m in accordance with Z–8.1–840					
ABS105–A060_AB1					
12.2021					



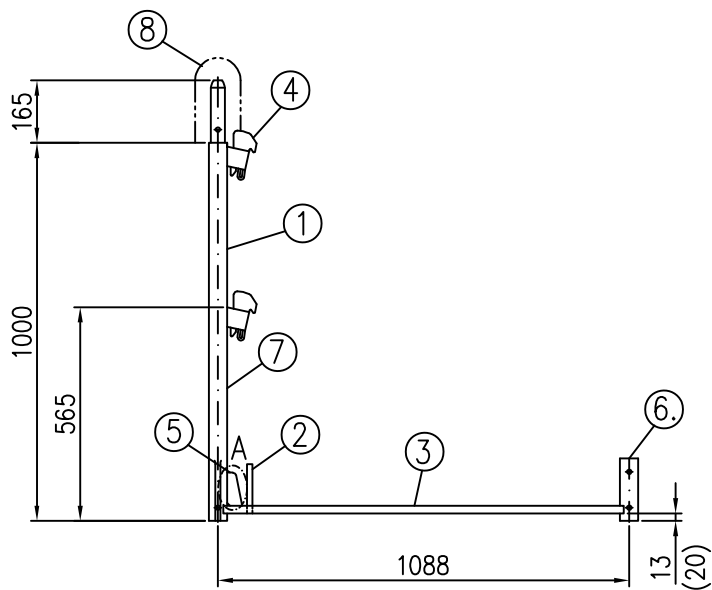
- ① Tube
- ② Cylinder head rivet
- ③ Halfcoupler with screw top
- ④ Marking
- ⑤ Assembly frame
- ⑥ Bracket
- ⑦ Diagonal cross brace

in accordance with approval Z-8.331-882

Weight [kg]
6.0

Frame scaffold ALBLITZ 100 S	Annex A, page 72
Diagonal cross brace 1.77 m in accordance with Z-8.1-16.2	
ABS710-A059_AB1	

12.2021

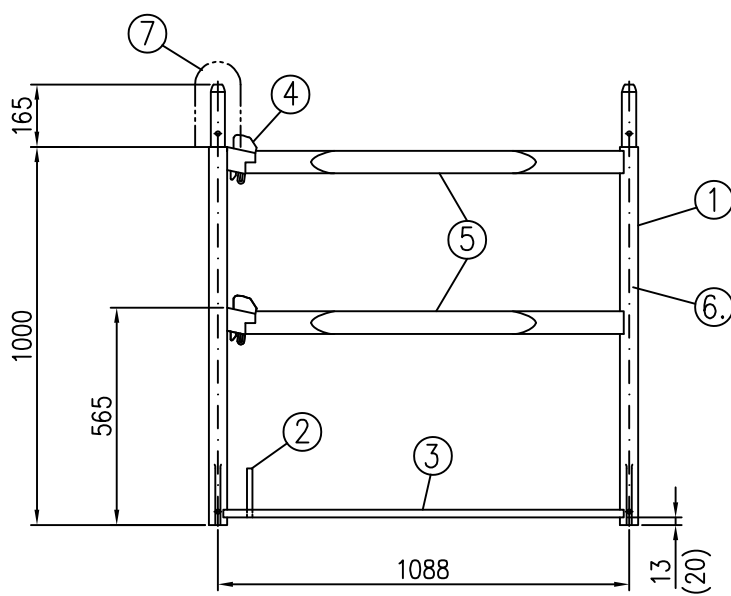


① Tube	ø48.3x2.7 (3.2)	EN 10219–S235JRH	$R_{eH} \geq 320 \text{ N/mm}^2$
② Toeboard pin		Steel	
③ Rectangular tube	40x20x2	Steel	
④ Guardrail wedge housing		(see Annex A, page 25)	
⑤ Gusset plate		Steel	
⑥ Tube	ø48.3x3.2	EN 10219–S235JRH	$R_{eH} \geq 320 \text{ N/mm}^2$
⑦ Marking			
⑧ see Annex A, page 21			
⑨ As deck lift–off prevention for the topmost decks, we advise securing the guardrail posts by means of locking pins!			

Weight [kg]
8.5

Frame scaffold ALBLITZ 100 S	Annex A, page 73
Lightweight guardrail post 1.09 m in accordance with Z–8.1–840	

ABS116–A060_AB1	12.2021
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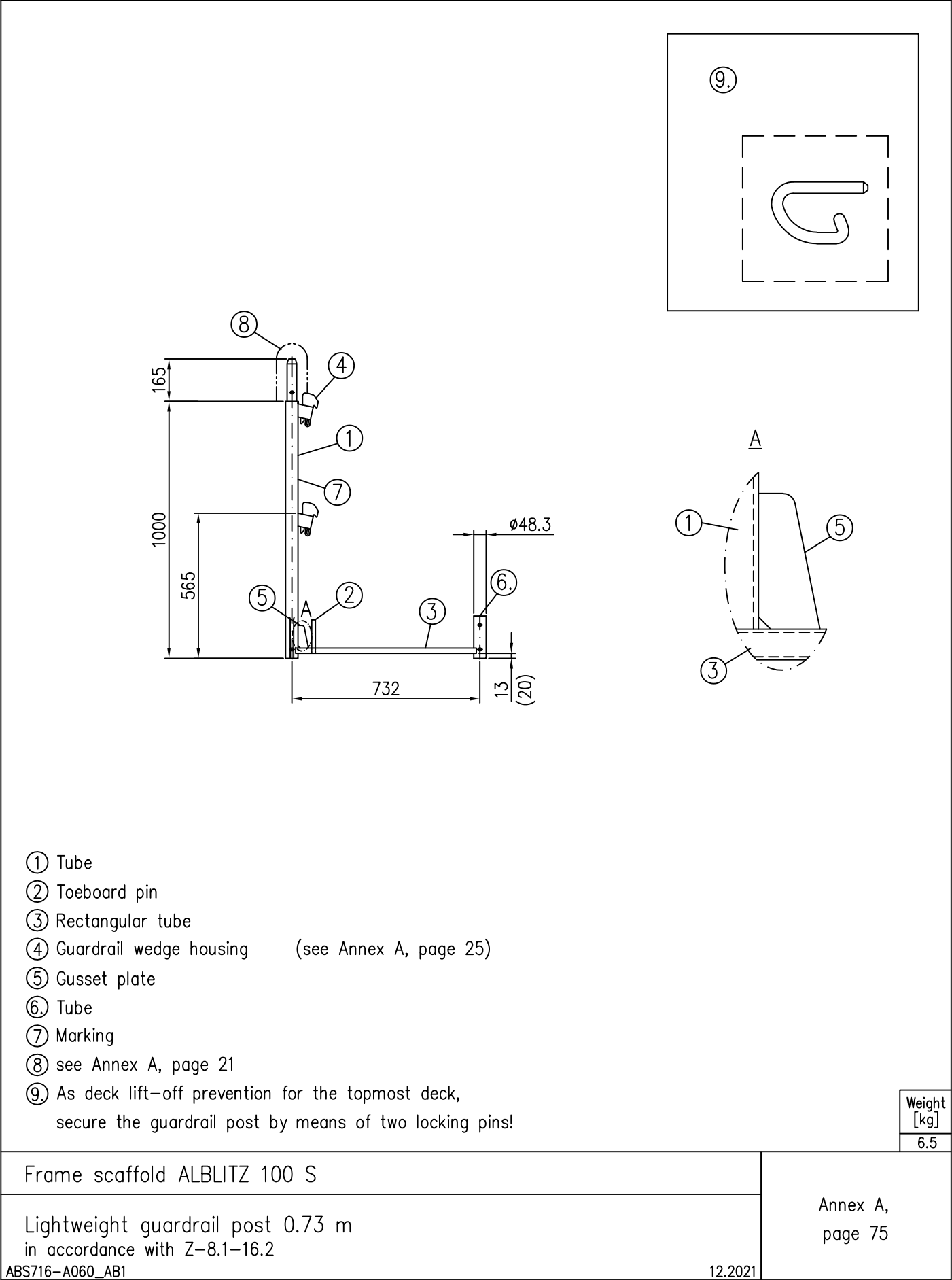


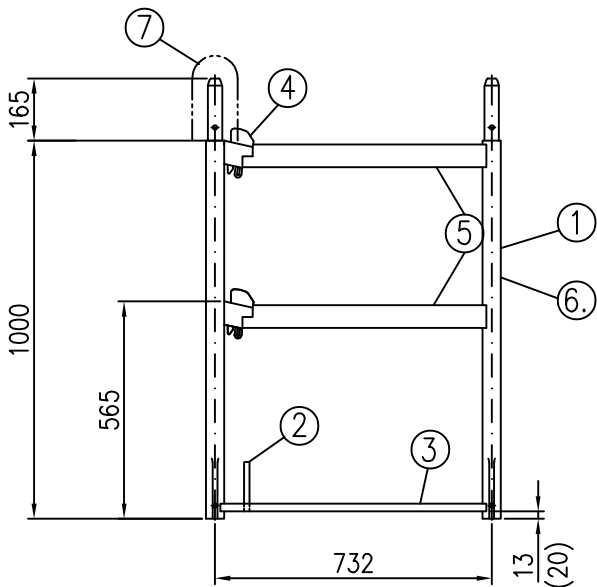
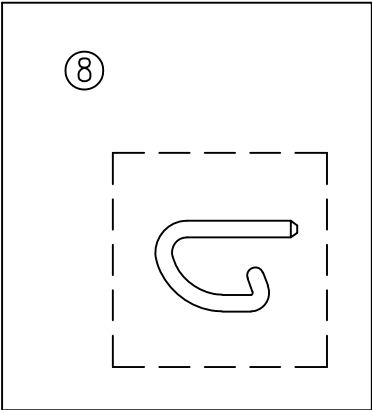
- | | | | |
|---|-----------------|------------------------|----------------------------------|
| ① Tube | ∅48.3x2.7 (3.2) | EN 10219–S235JRH | $R_{eH} \geq 320 \text{ N/mm}^2$ |
| ② Toeboard pin | | Steel | |
| ③ Rectangular tube | 40x20x2 | Steel | |
| ④ Guardrail wedge housing | | (see Annex A, page 25) | |
| ⑤ Crossbar | 40x6 | Steel | |
| ⑥ Marking | | | |
| ⑦ see Annex A, page 21 | | | |
| ⑧ As deck lift-off prevention for the topmost decks,
we advise securing the guardrail post by means of two locking pins! | | | |

Weight [kg]
14.9

Frame scaffold ALBLITZ 100 S	Annex A, page 74
Lightweight end guardrail post 1.09 m in accordance with Z–8.1–840 ABS121–A008_AB1	

12.2021

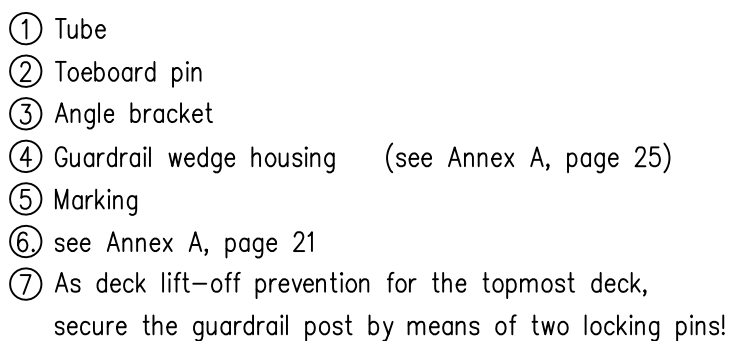




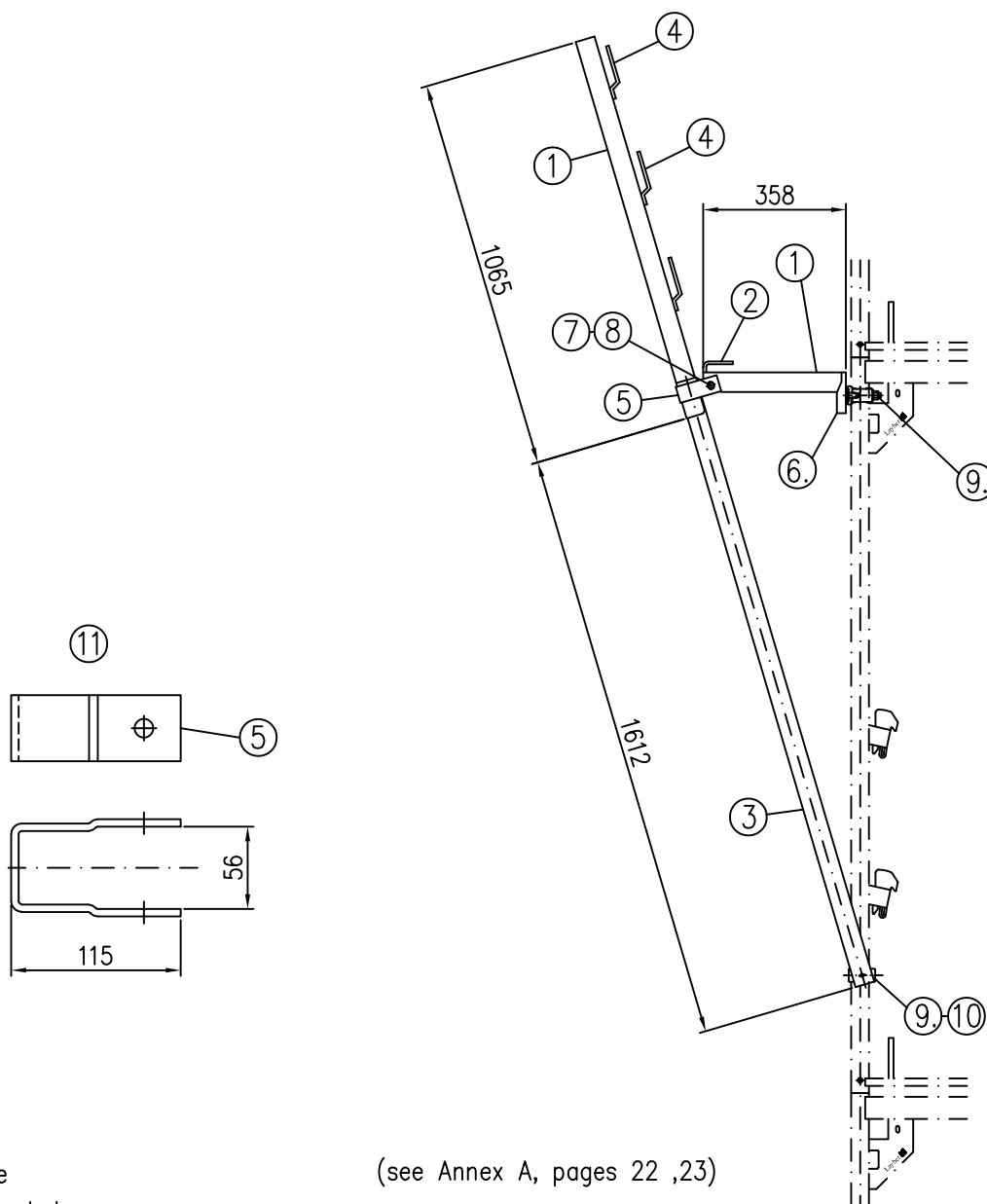
- ① Tube
- ② Toeboard pin
- ③ Rectangular tube
- ④ Guardrail wedge housing (see Annex A, page 25)
- ⑤ Crossbar
- ⑥ Marking
- ⑦ see Annex A, page 21
- ⑧ As deck lift-off prevention for the topmost deck,
secure the guardrail post by means of two locking pins!

Weight [kg]
13.3

Frame scaffold ALBLITZ 100 S	Annex A, page 76
Lightweight end guardrail post 0.73 m in accordance with Z-8.1-16.2	
ABS721-A003_AB1	12.2021



⑦ As deck lift-off prevention for the topmost deck, secure the guardrail post by means of two locking pins!		Weight [kg] 5.5
Frame scaffold ALBLITZ 100 S		Annex A, page 77
Guardrail post, single in accordance with Z-8.1-16.2 ABS716-A061_AB1 12.2021		



(see Annex A, pages 22 ,23)

in accordance with approval Z-8.331-882

- ① U-profile
- ② Angle bracket
- ③ Tube
- ④ Lug
- ⑤ U-bracket
- ⑥ Support-U
- ⑦ Hexagon bolt
- ⑧ Locking nut
- ⑨ Halfcoupler with screw top
- ⑩ Swivel halfcoupler, riveted!
- ⑪ Detailed view U-bracket

Weight [kg]
14.4

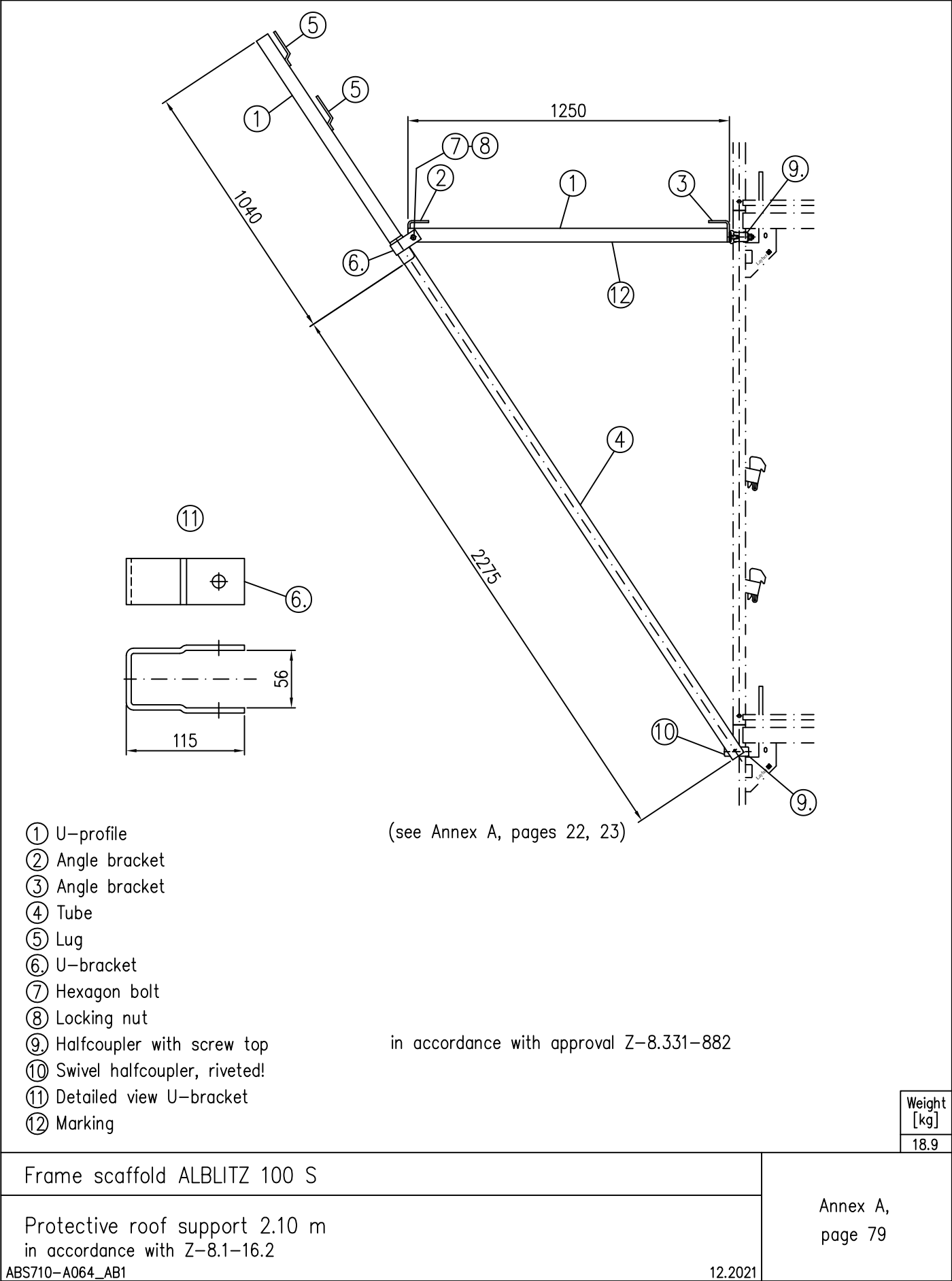
Frame scaffold ALBLITZ 100 S

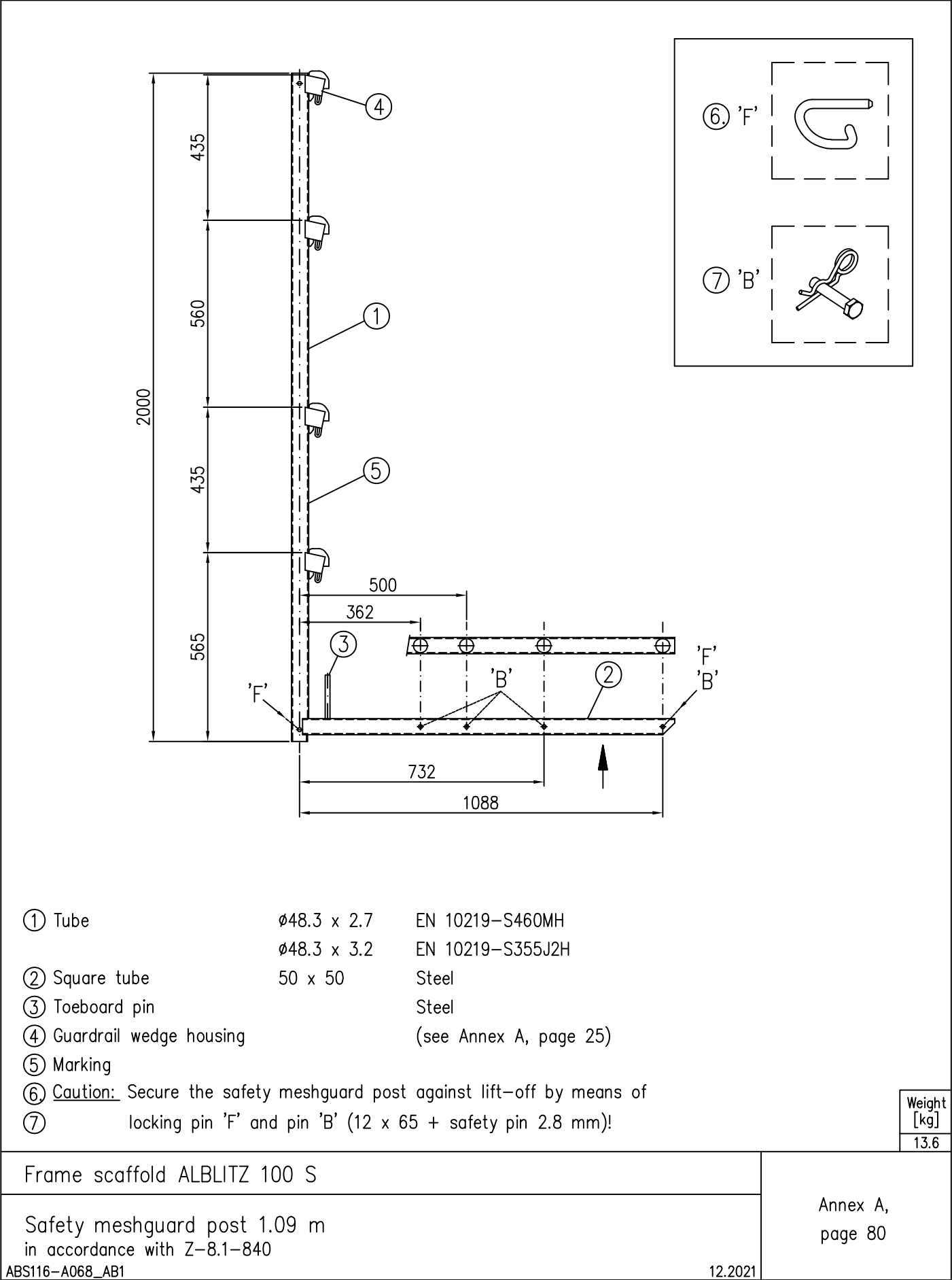
Protective roof bracket 1.30 m
in accordance with Z-8.1-16.2

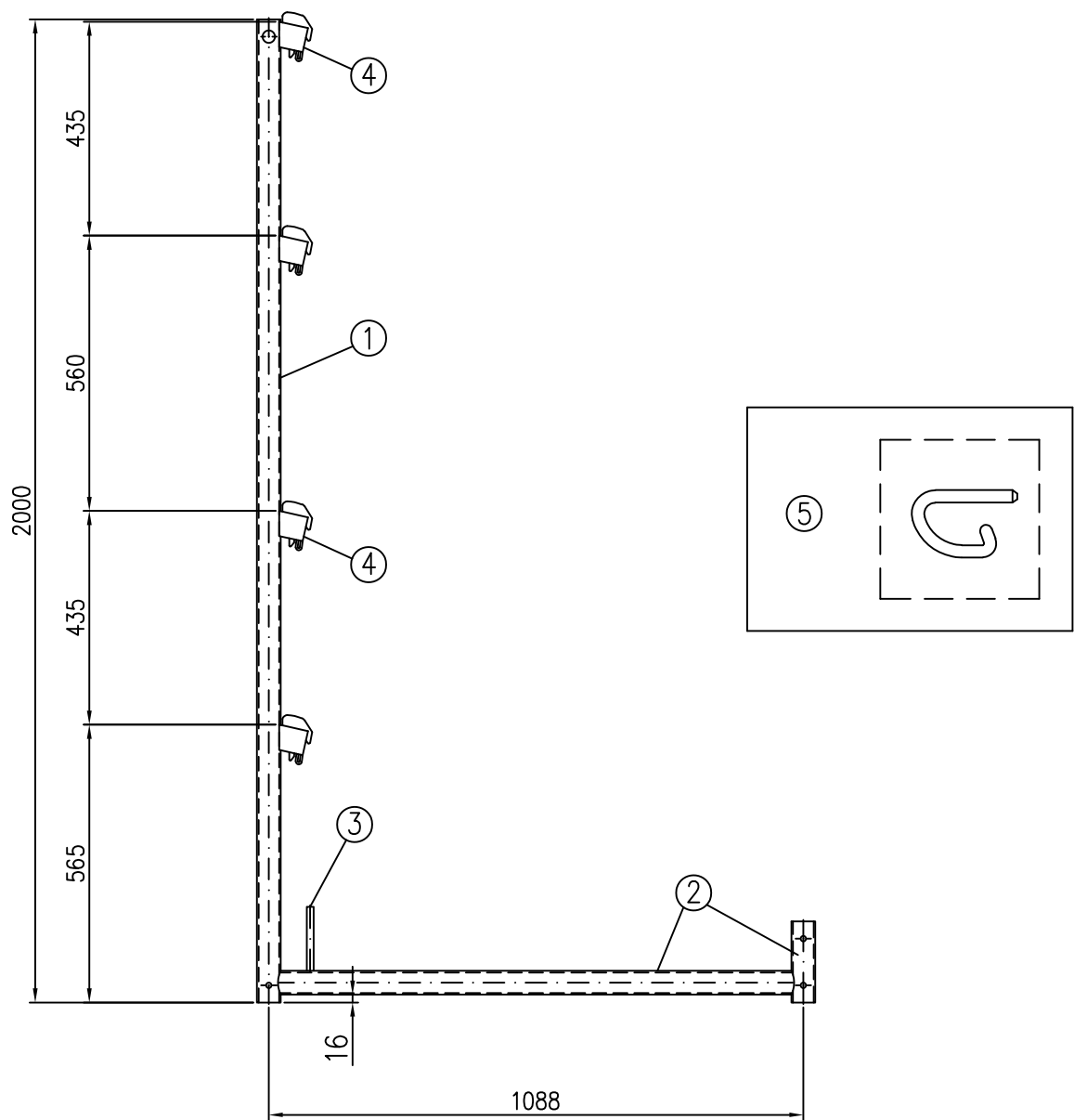
ABS710-A063_AB1

12.2021

Annex A,
page 78







- ① Tube

ø48.3 x 3.2

Steel
- ② Tube

ø48.3 x 3.2

Steel
- ③ Toeboard pin

Steel
- ④ Guardrail wedge housing

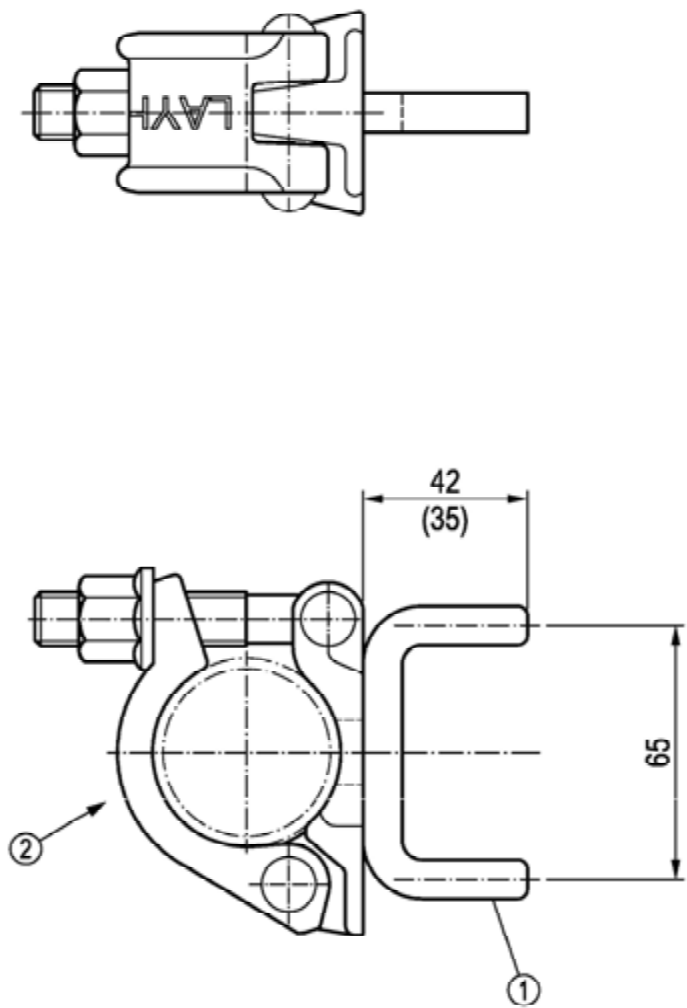
(see Annex A, page 25)
- ⑤ Caution: Secure the safety meshguard post against lift-off by means of locking pins!

Only for continued use—
no longer manufactured

Weight
[kg]
15.5

Frame scaffold ALBLITZ 100 S	Annex A, page 81
Safety meshguard post 1.09 m (discontinued design) in accordance with Z-8.1-840 ABS105-A070_AB1	

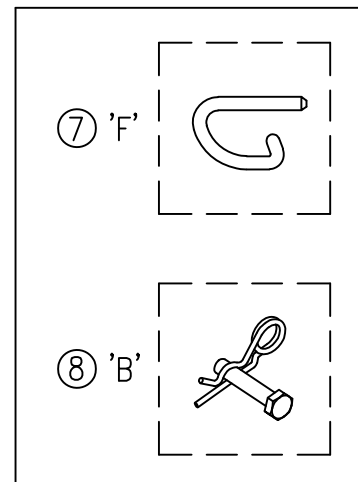
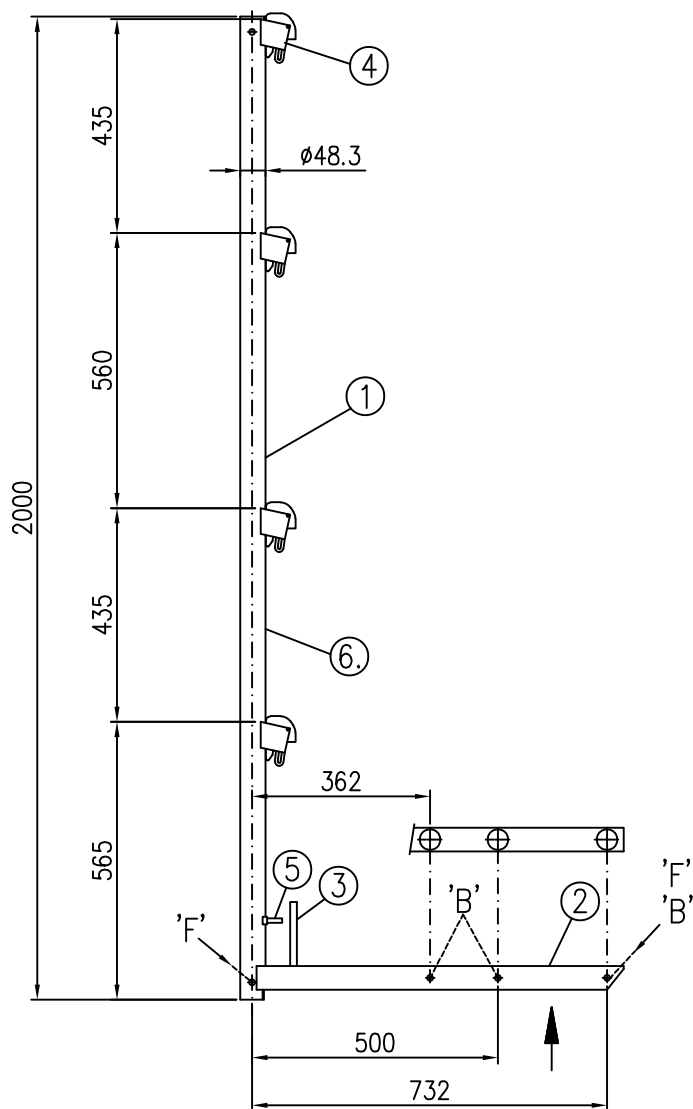
12.2021



- ① 2-pin
- ② Halfcoupler with screw top
- in accordance with approval Z-8.331-882

Weight [kg]
0.9

Frame scaffold ALBLITZ 100 S	Annex A, page 82
2-pin coupler in accordance with Z-8.1-16.2	
ABS121-A009_AB112.2021	



- ① Tube
- ② Square tube
- ③ Toeboard pin
- ④ Guardrail wedge housing (see Annex A, page 25)
- ⑤ U-pin
- ⑥ Marking
- ⑦ Caution: Secure the safety meshguard post against lift-off by means of
- ⑧ locking pin 'F' and pin 'B' (12 x 65 + safety pin 2.8 mm)!

Weight [kg]
12.1

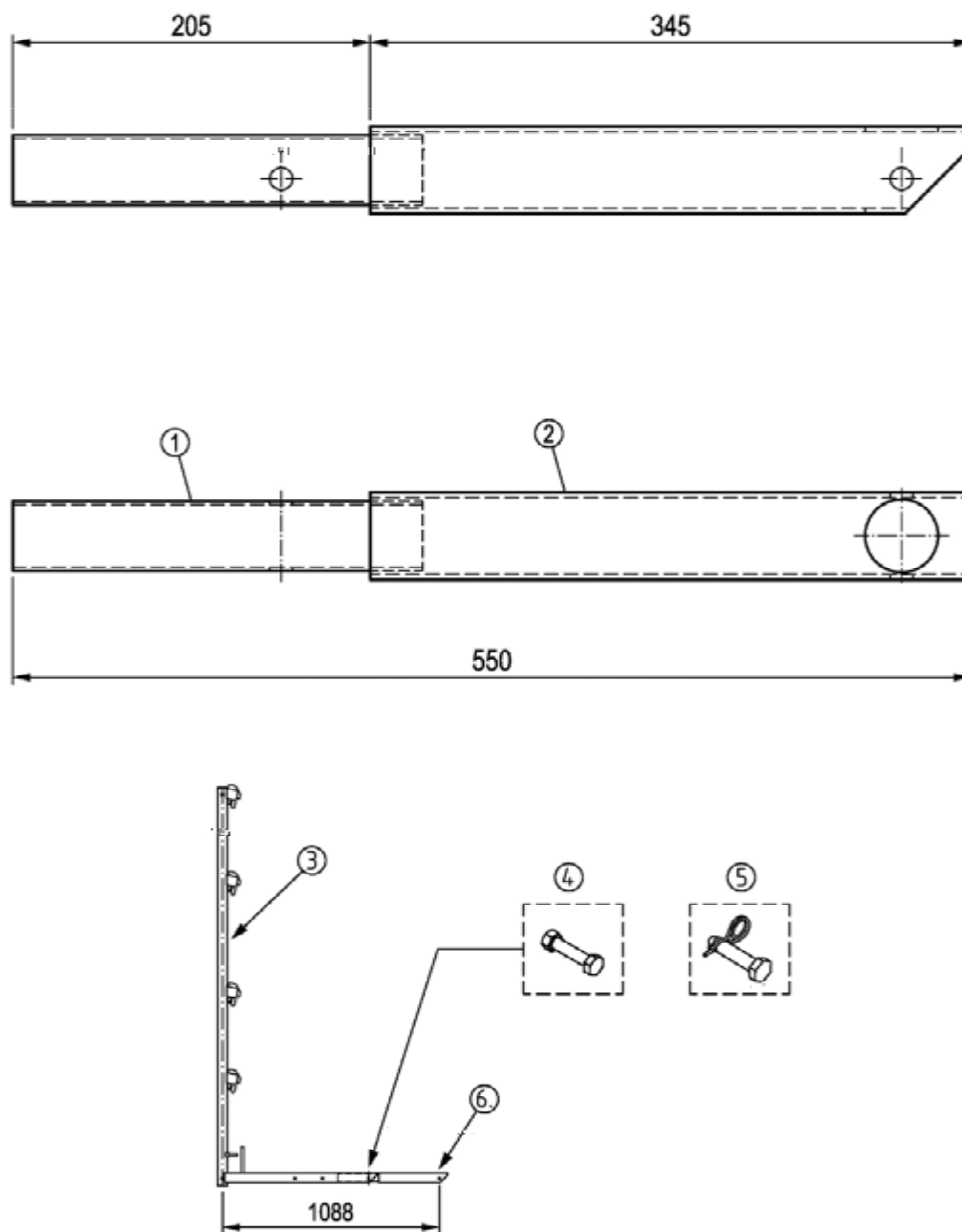
Frame scaffold ALBLITZ 100 S

Safety meshguard post 0.36; 0.50; 0.73 m T15
in accordance with Z-8.1-16.2

ABS121-A010_AB1

12.2021

Annex A,
page 83



- ① Square tube 40 x 2 EN 10219-1 – S235JRH
- ② Square tube 50 x 3 EN 10219-1 – S235JRH
- ③ Safety meshguard post according to Annex A, pages 83, 85
- ④ Hexagon bolt M12 with nut or
- ⑤ Pin $\varnothing 12$ + Locking pin 2.8 mm
- ⑥ Adapter

Weight [kg]
2.3

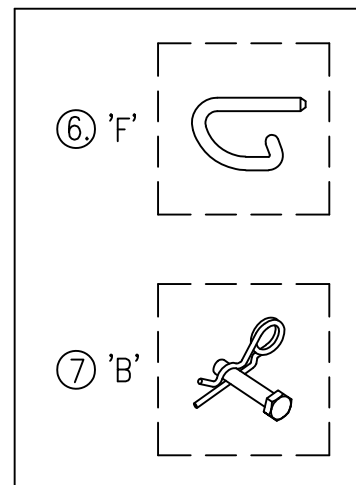
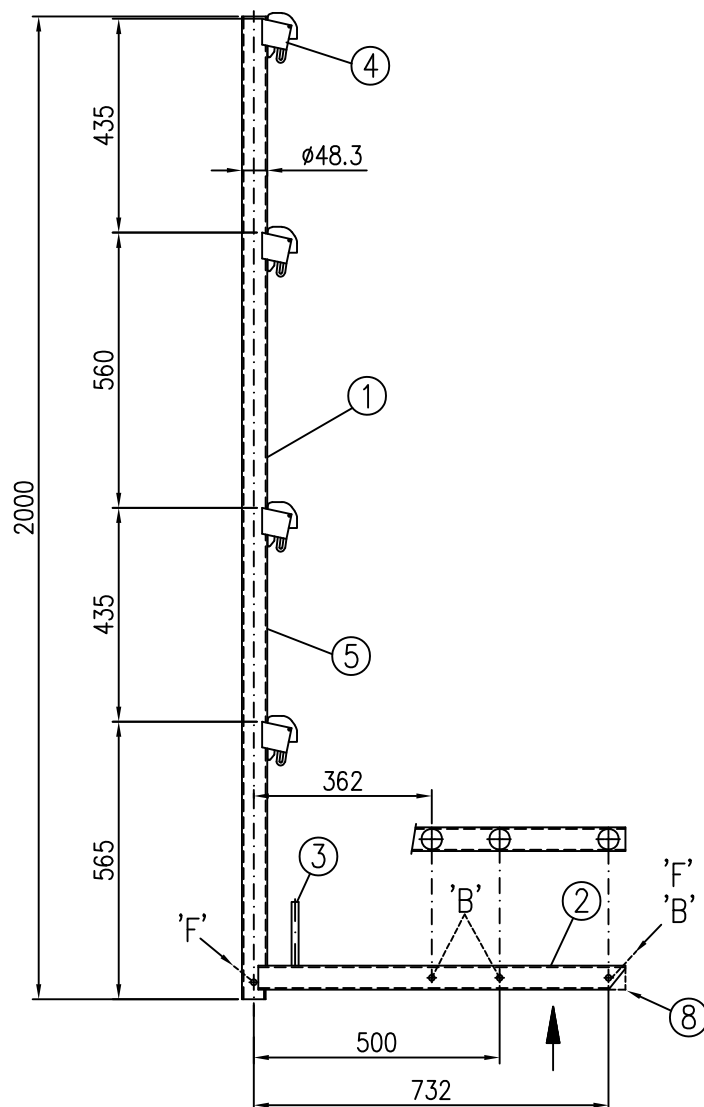
Frame scaffold ALBLITZ 100 S

Adapter for safety meshguard post
in accordance with Z-8.1-840

ABS121-A011_AB1

12.2021

Annex A,
page 84



- ① Tube
- ② Square tube
- ③ Toeboard pin
- ④ Guardrail wedge housing (see Annex A, page 25)
- ⑤ Marking
- ⑥ Caution: Secure the safety meshguard post against lift-off by means of
- ⑦ locking pin 'F' and pin 'B' (12 x 65 + safety pin 2.8 mm)!
- ⑧ Discontinued design: without chamfer

Weight [kg]
12.1

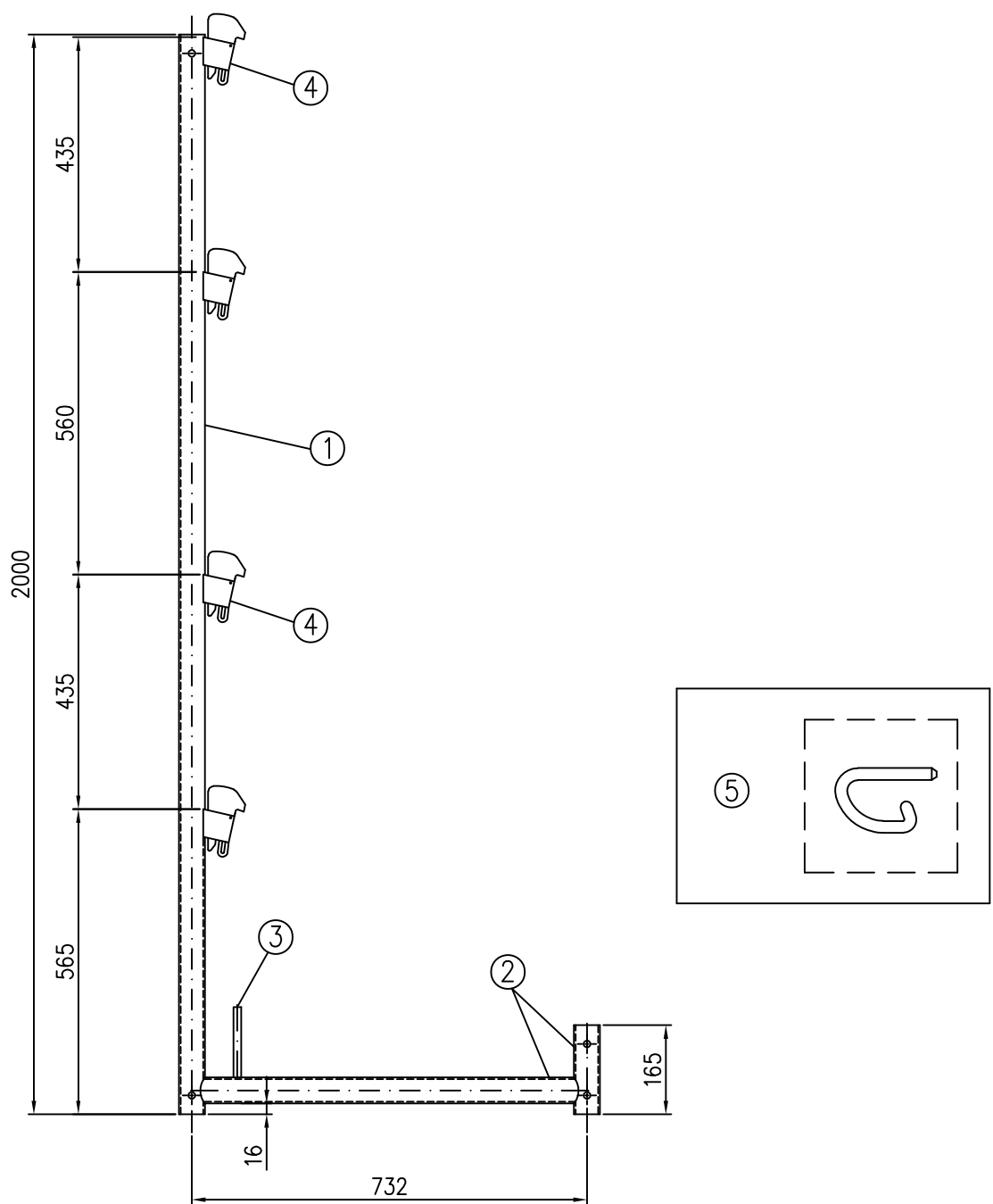
Frame scaffold ALBLITZ 100 S

Safety meshguard post 0.36; 0.50; 0.73 m
in accordance with Z-8.1-16.2

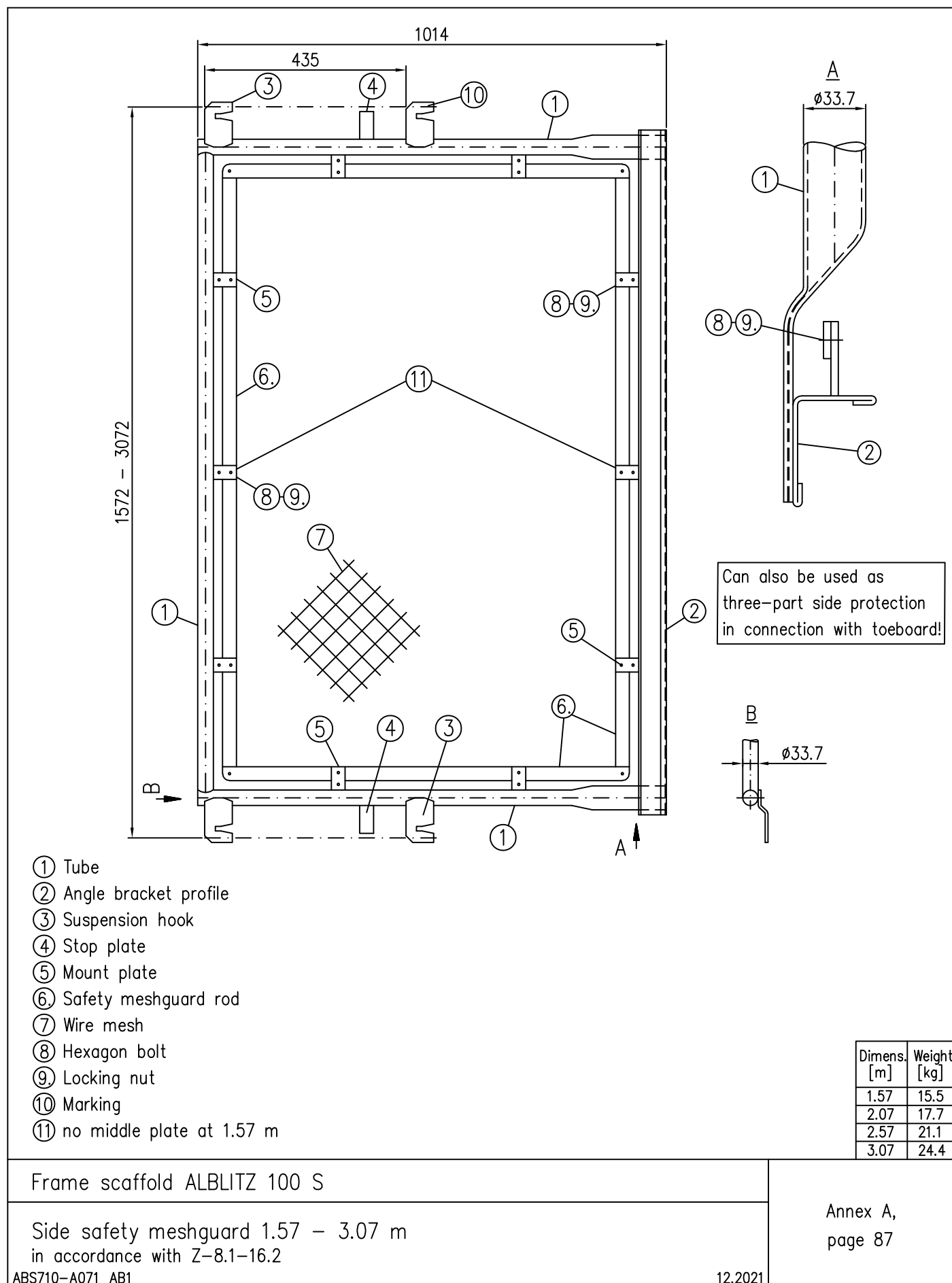
ABS710-A067_AB1

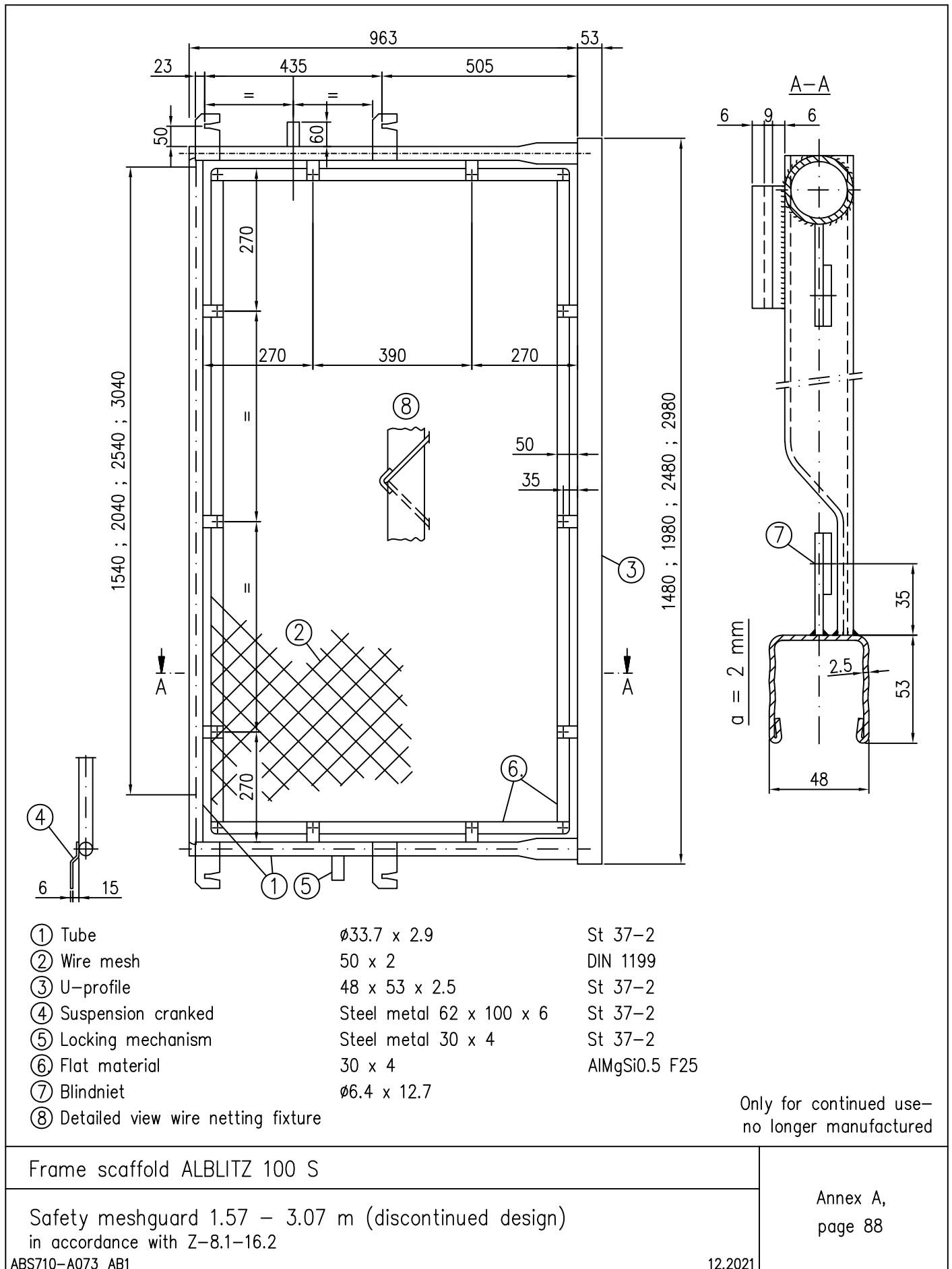
12.2021

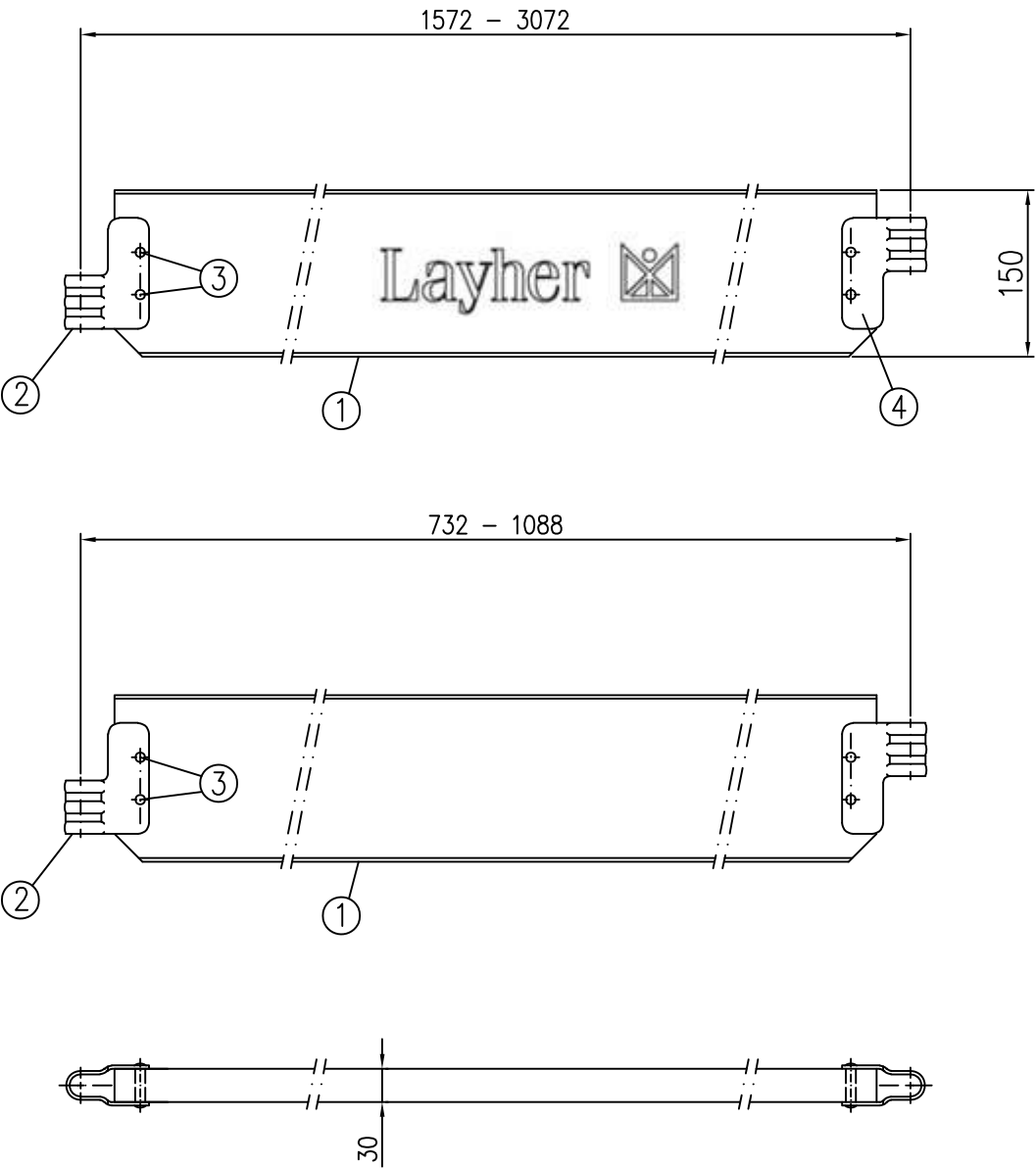
Annex A,
page 85



① Tube	
② Tube	
③ Toeboard pin	
④ Guardrail wedge housing	
⑤ The safety meshguard post must be secured by means of 2 locking pins!	
Only for continued use—no longer manufactured	
Weight [kg]	
14.0	
Frame scaffold ALBLITZ 100 S	
Safety meshguard post 0.73 m (discontinued design) in accordance with Z-8.1-16.2	
ABS710-A068_AB1	
12.2021	
Annex A, page 86	





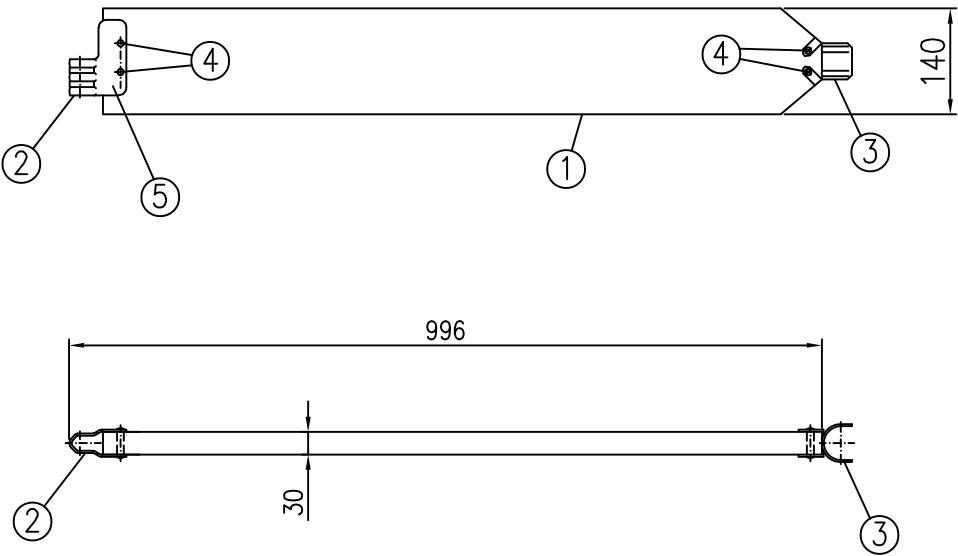


- ① Wooden plank
- ② Toeboard fitting
- ③ Flat round rivet
- ④ Marking

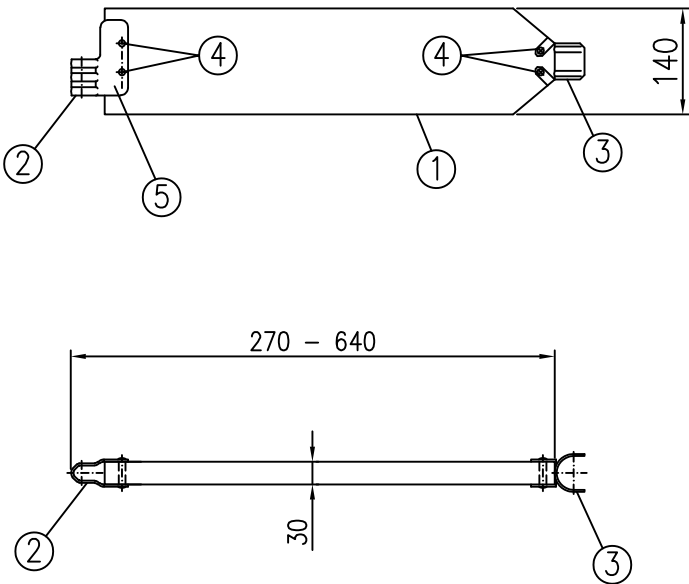
Dimens. [m]	Weight [kg]
0.73	1.6
1.09	2.4
1.57	3.1
2.07	4.7
2.57	5.6
3.07	6.8

Frame scaffold ABLITZ 100 S	Annex A, page 89
Toeboard 0.73 – 3.07 m in accordance with Z–8.1–16.2	
ABS710–A075_AB1	

12.2021



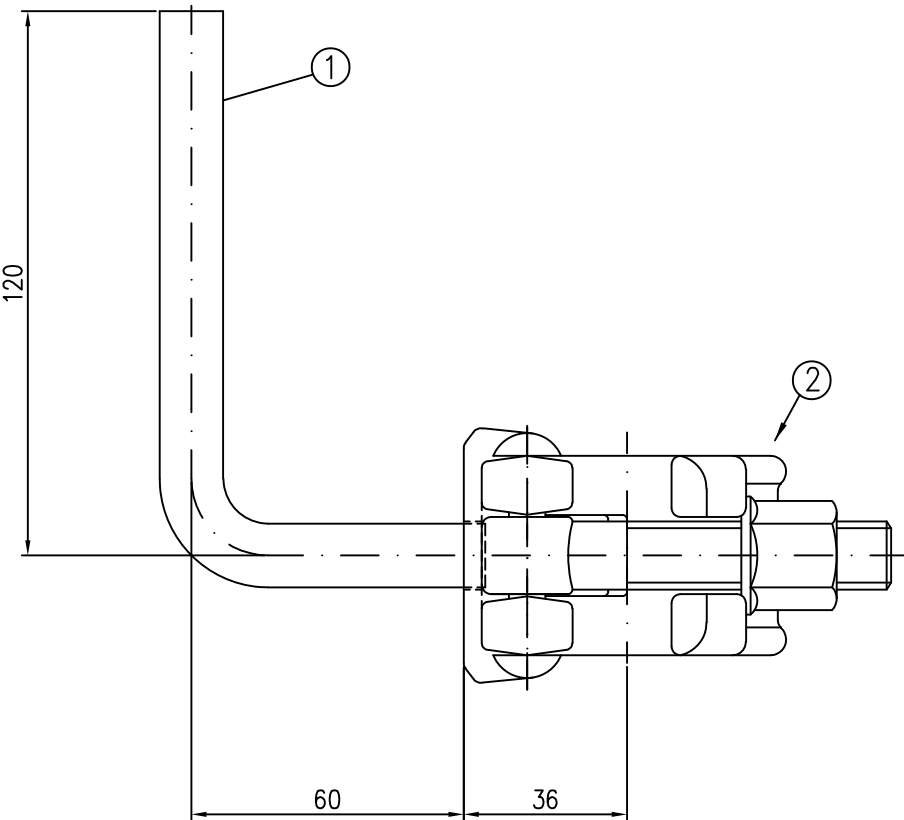
① Wooden plank	140 x 30	DIN 4074 – S10 or strength class C24	<table><tr><td>Weight [kg]</td></tr><tr><td>2.3</td></tr></table>	Weight [kg]	2.3
Weight [kg]					
2.3					
② Toeboard fitting	t = 2	EN 10346 – S250			
③ End toeboard fitting	t = 2.5	EN 10025-2 – S235JR			
④ Flat round rivet	ø8 x 40	EN 10263-2			
⑤ Marking					
Frame scaffold ALBLITZ 100 S			Annex A, page 90		
End toeboard 1.09 m in accordance with Z-8.1-840					
ABS105-A079_AB1					
12.2021					



- ① Wooden plank
- ② Toeboard fitting
- ③ End toeboard fitting
- ④ Flat round rivet
- ⑤ Marking

Dimens. [m]	Weight [kg]
0.73	1.8

Frame scaffold ALBLITZ 100 S		Annex A, page 91
End toeboard 0.36 – 0.73 m in accordance with Z–8.1–16.2		
ABS710–A077_AB1	12.2021	



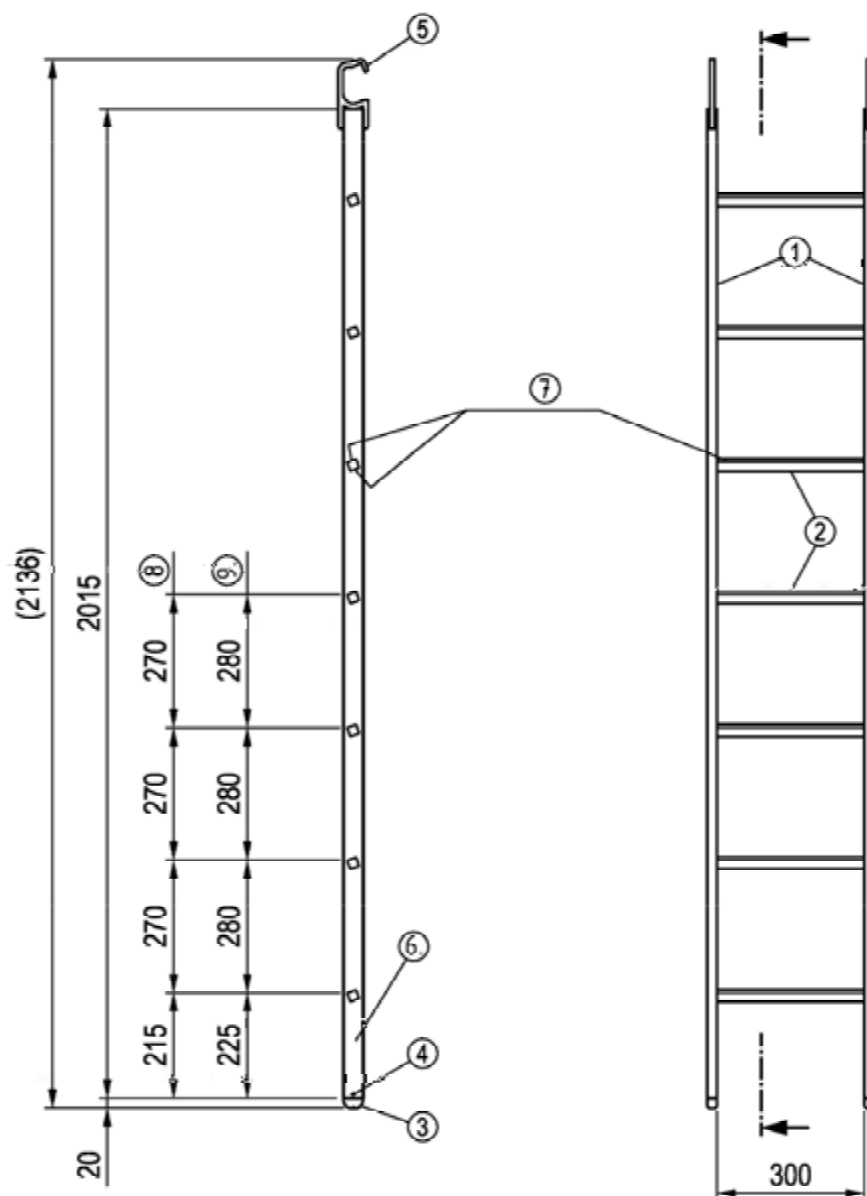
- ① Pin
- ② Halfcoupler with screw top

in accordance with approval Z-8.331-882

Weight [kg]
1.0

Frame scaffold ALBLITZ 100 S	Annex A, page 92
Halfcoupler with toeboard pin in accordance with Z-8.1-16.2	
ABS710-A079_AB1	

12.2021



- ① Stile
- ② Rung
- ③ Rubber base
- ④ Blind rivet
- ⑤ Suspension hook
- ⑥ Marking
- ⑦ Ribbed profile
- ⑧ Variant: T19
- ⑨ Variant: T15

Weight [kg]
7.6

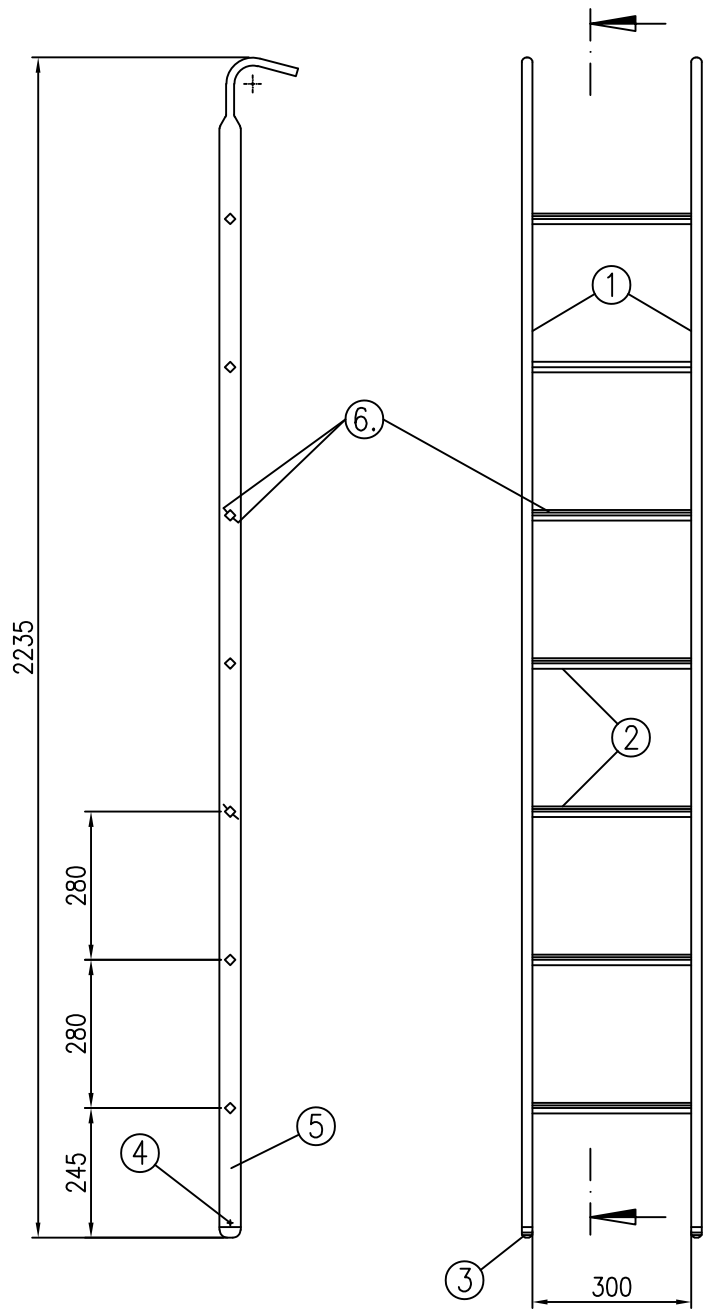
Frame scaffold ALBLITZ 100 S

Storey ladder 7 rungs T19 / T15
in accordance with Z-8.22-939

ABS121-A012_AB1

12.2021

Annex A,
page 93

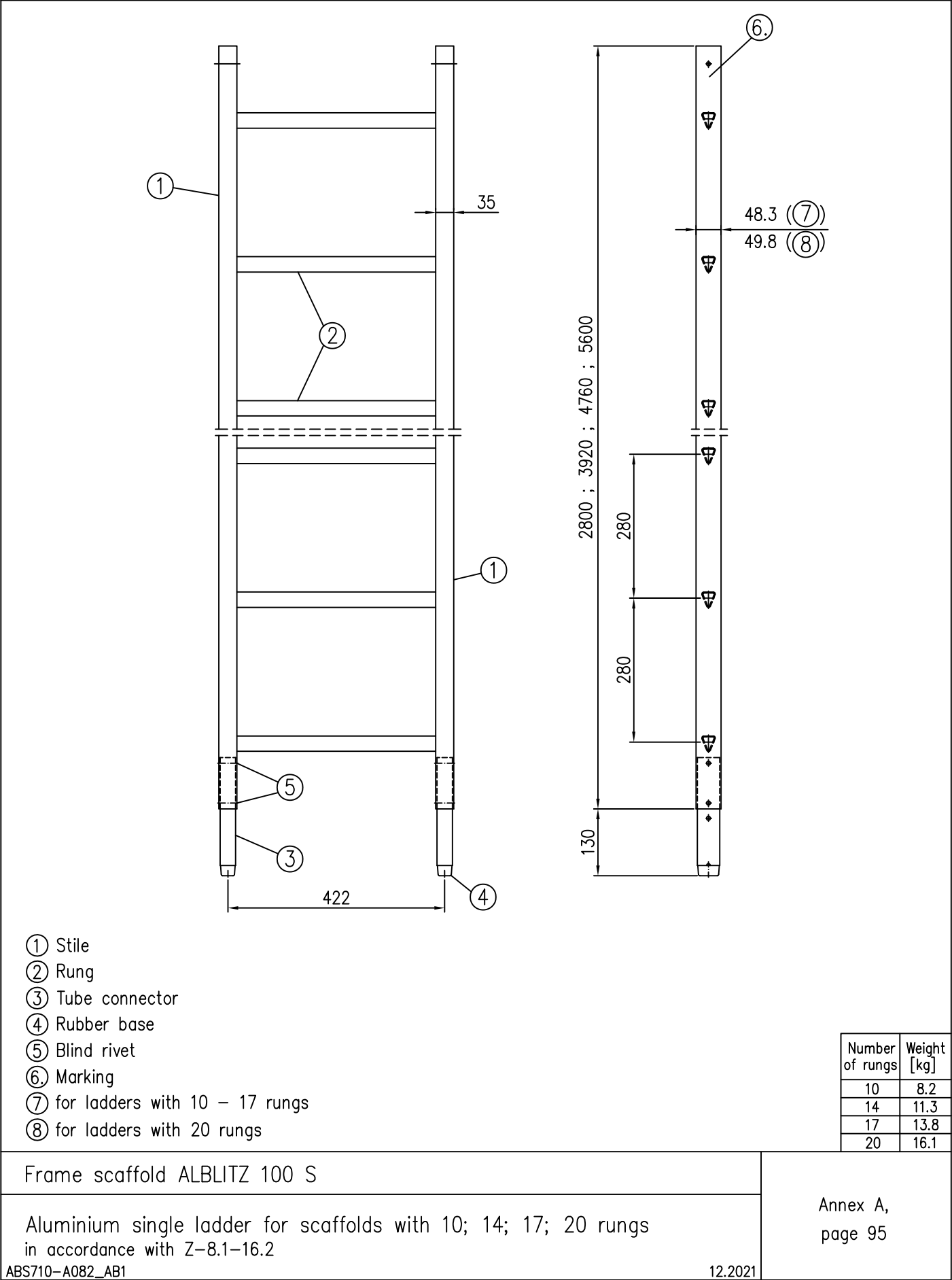


- ① Stile
- ② Rung
- ③ Rubber base
- ④ Blind rivet
- ⑤ Marking
- ⑥ Ribbed profile

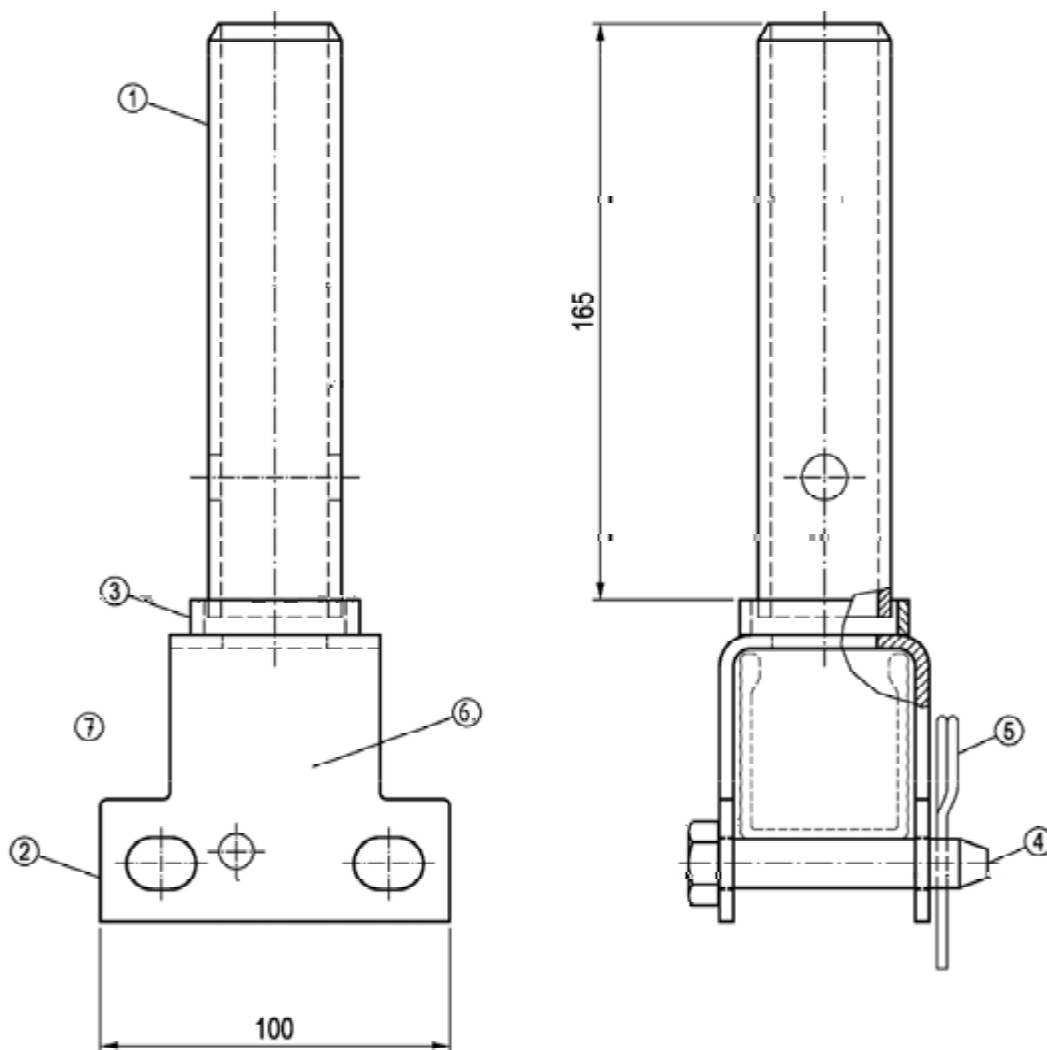
Weight [kg]
7.8

Frame scaffold ALBLITZ 100 S	Annex A, page 94
Storey ladder 7 rungs in accordance with Z-8.1-16.2	
ABS710-A080_AB1	

12.2021



Secure component against lift-off by means of a pin!



- ① Tube connector
- ② U-Bracket
- ③ Tube
- ④ Pin
- ⑤ Locking pin
- ⑥ Marking
- ⑦ Figure does not show pin and locking pin!

Weight [kg]
1.8

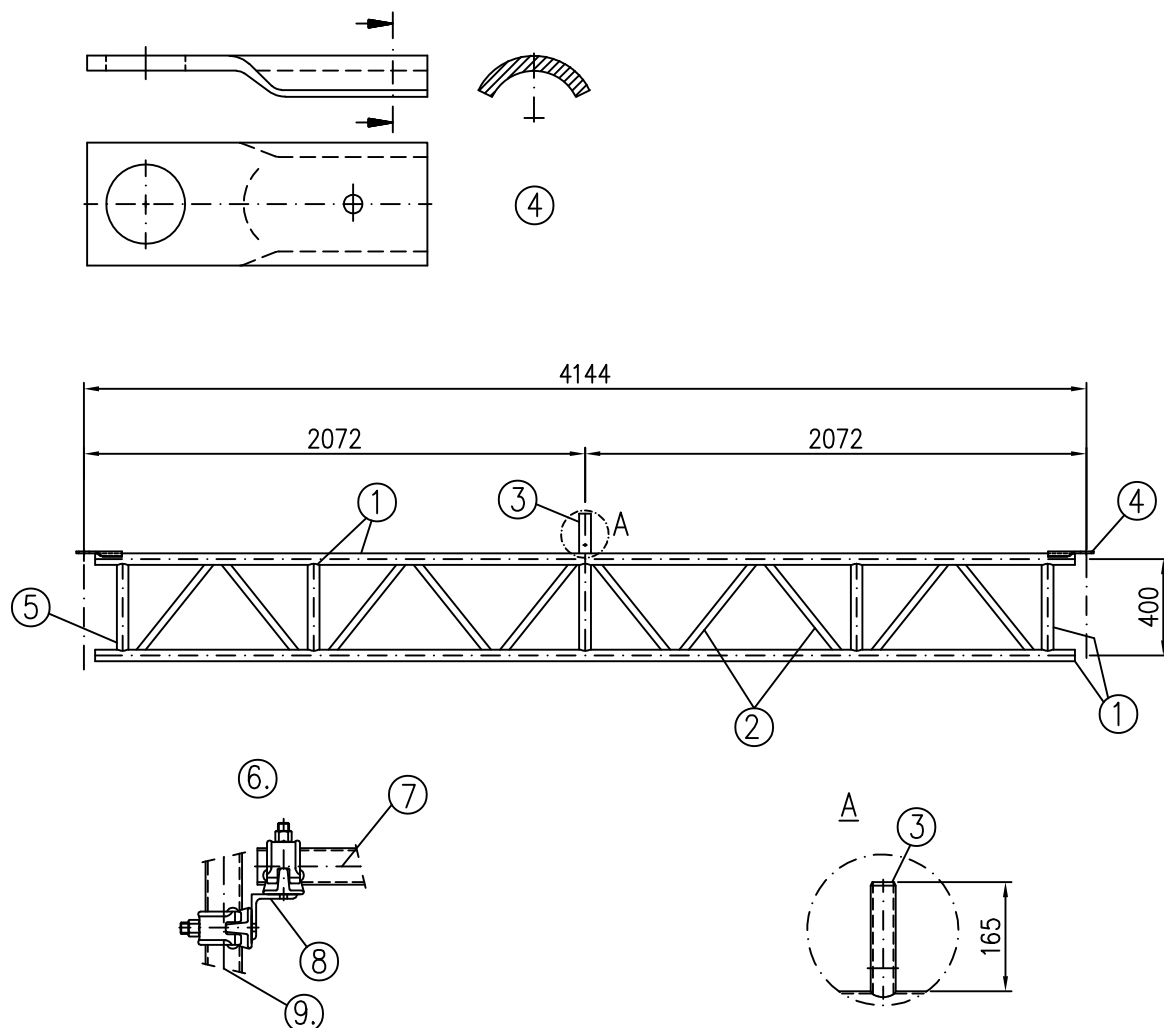
Frame scaffold ALBLITZ 100 S

Tube connector 0.19 m
in accordance with Z-8.1-16.2

ABS121-A013_AB1

12.2021

Annex A,
page 96



- ① Tube ø48.3
- ② Rectangular tube
- ③ Tube connector
- ④ Lattice girder lash
- ⑤ Marking
- ⑥ Connection point
- ⑦ Lower chord of lattice girder
- ⑧ Lattice girder coupler
- ⑨ Assembly frame

Weight [kg]
41.3

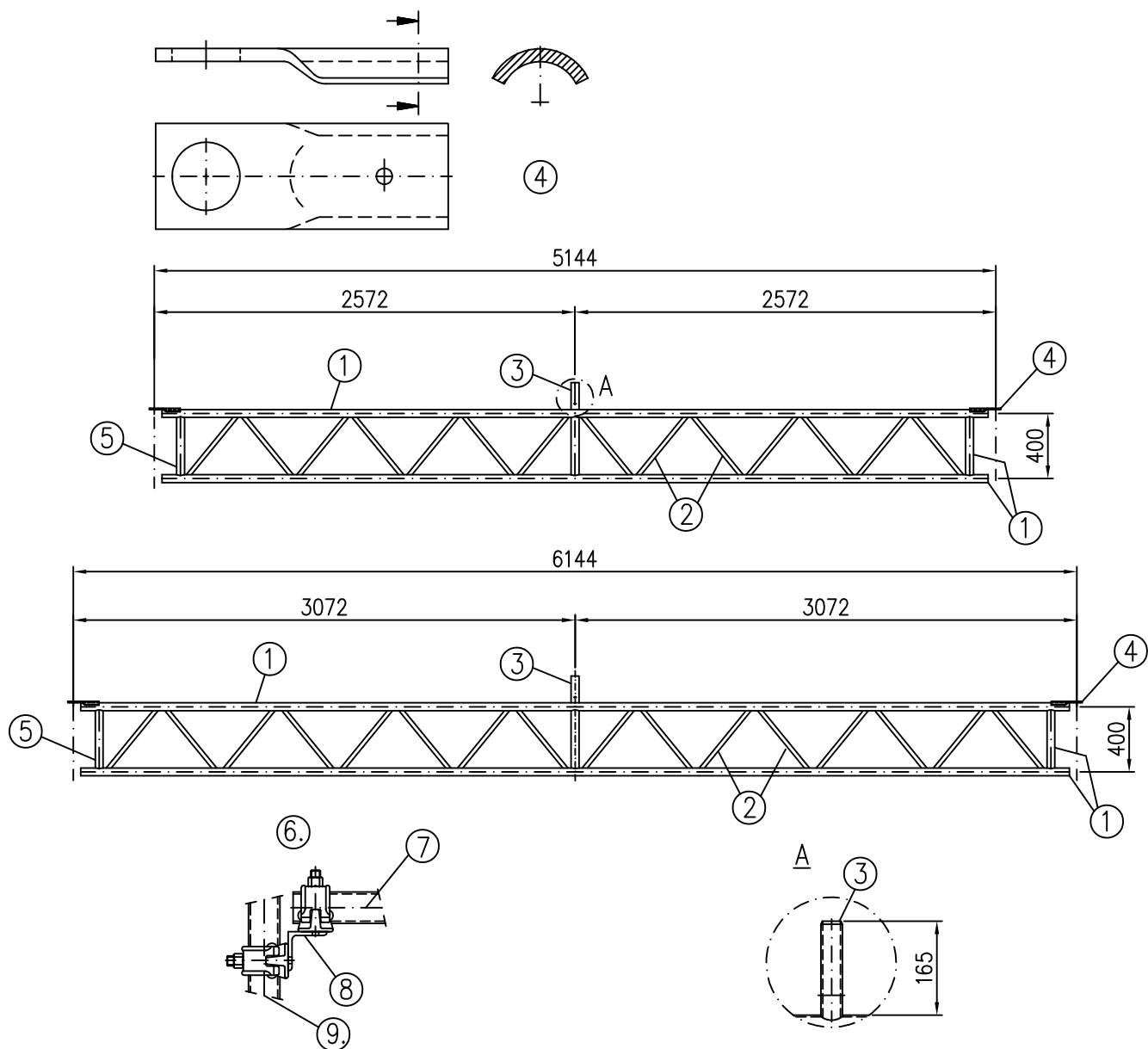
Frame scaffold ALBLITZ 100 S

Lightweight lattice girder 4.14 m with tube connector
in accordance with Z-8.1-16.2

ABS716-A210_AB1

12.2021

Annex A,
page 97



- ① Tube $\varnothing 48.3$
- ② Rectangular tube
- ③ Tube connector
- ④ Lattice girder lash
- ⑤ Marking
- ⑥ Connection point
- ⑦ Lower chord of lattice girder
- ⑧ Lattice girder coupler
- ⑨ Assembly frame

Dimens. [m]	Weight [kg]
5.14	46.4
6.14	53.9

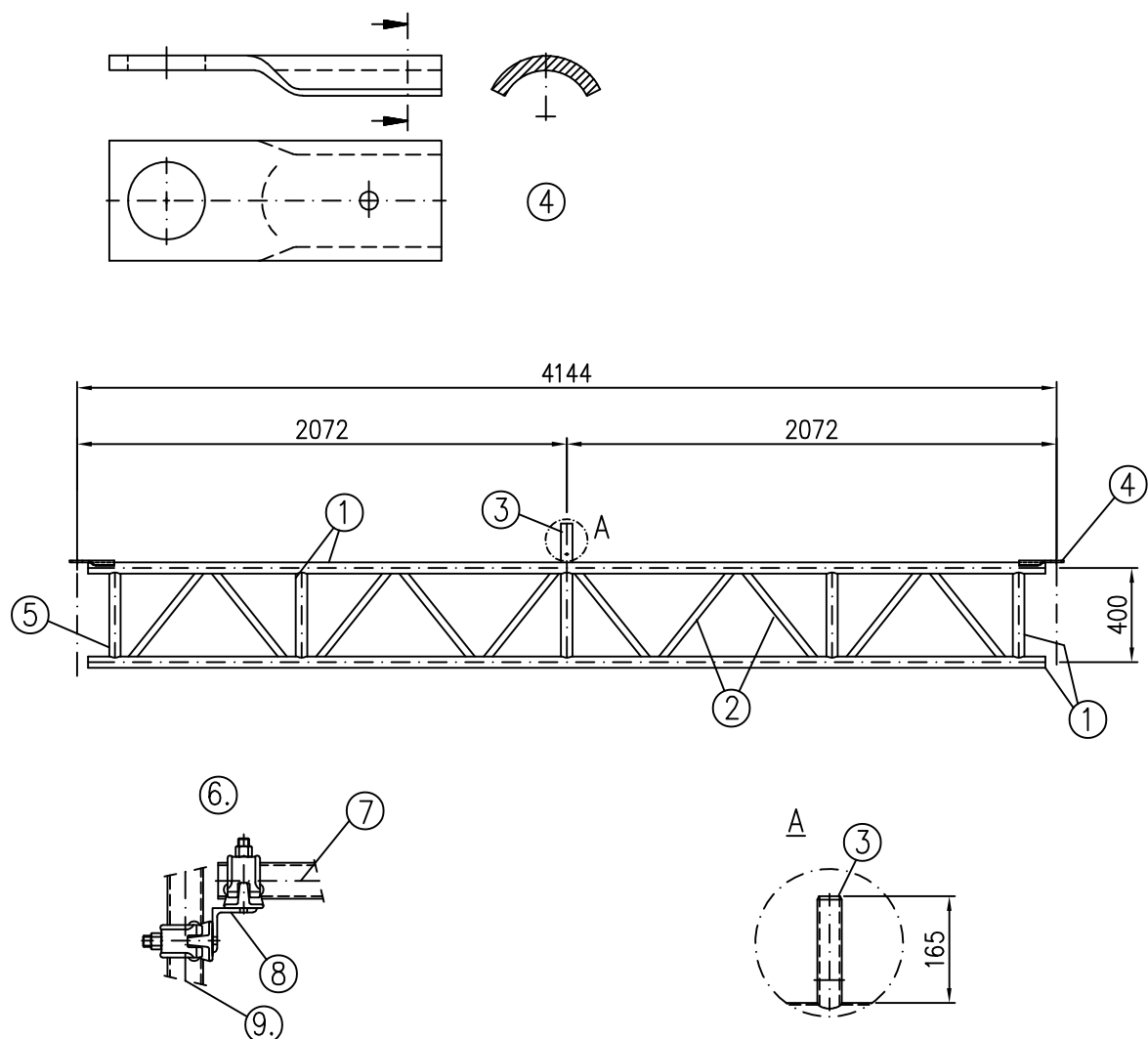
Frame scaffold ALBLITZ 100 S

Lightweight lattice girder 5.14 – 6.14 m with tube connector
in accordance with Z-8.1-16.2

ABS716-A211_AB1

12.2021

Annex A,
page 98



- ① Tube Ø48.3
- ② Rectangular tube
- ③ Tube connector
- ④ Lattice girder lash
- ⑤ Marking
- ⑥ Connection point
- ⑦ Lower chord of lattice girder
- ⑧ Lattice girder coupler
- ⑨ Assembly frame

Weight [kg]
43.0

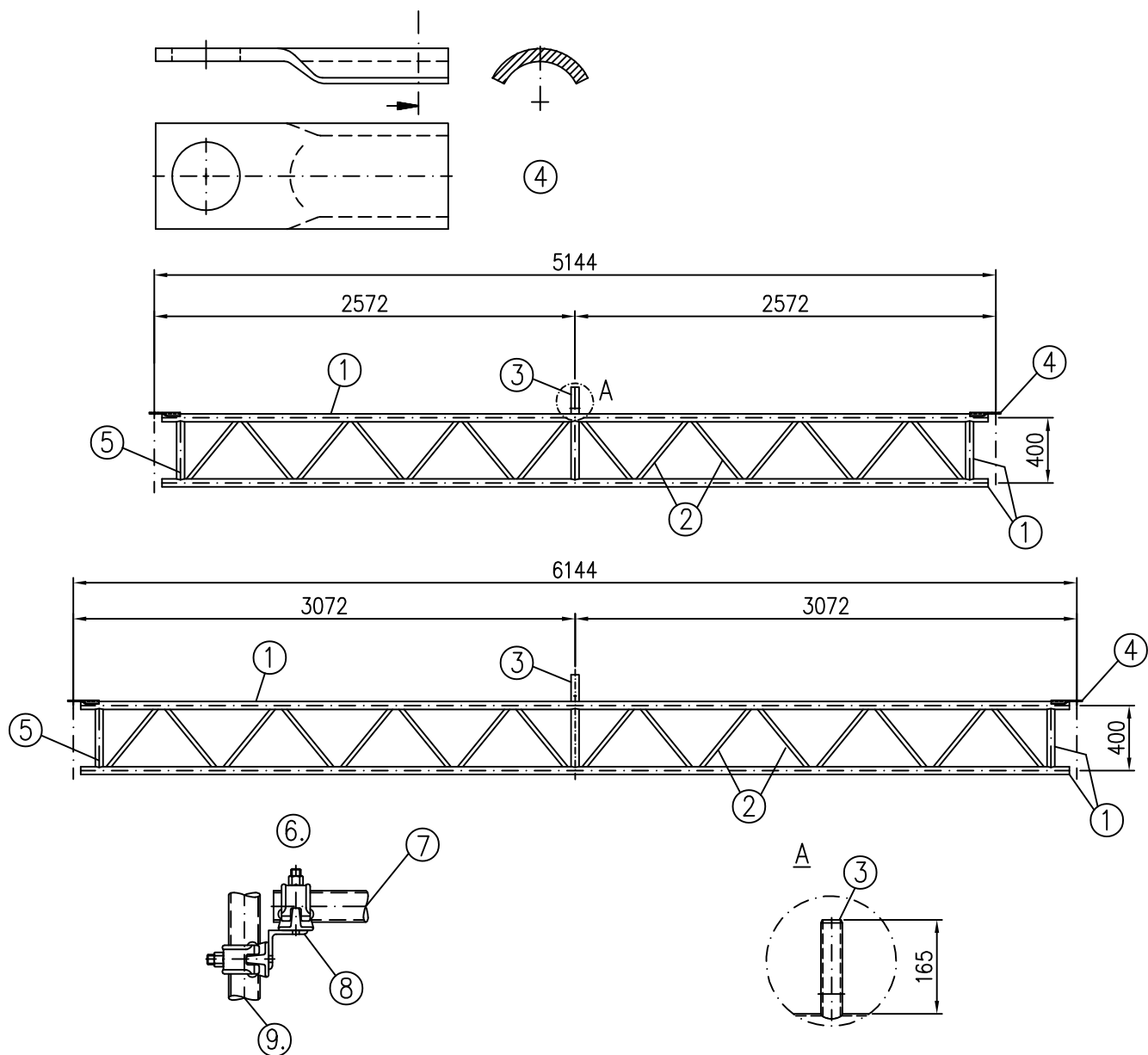
Frame scaffold ALBLITZ 100 S

Lattice girder 4.14 m mit with tube connector
in accordance with Z-8.1-16.2

ABS105-A086_AB1

12.2021

Annex A,
page 99



- ① Tube $\varnothing 48.3$
- ② Rectangular tube
- ③ Tube connector
- ④ Lattice girder lash
- ⑤ Marking
- ⑥ Connection point
- ⑦ Lower chord of lattice girder
- ⑧ Lattice girder coupler
- ⑨ Assembly frame

Dimens. [m]	Weight [kg]
5.14	52.3
6.14	60.9

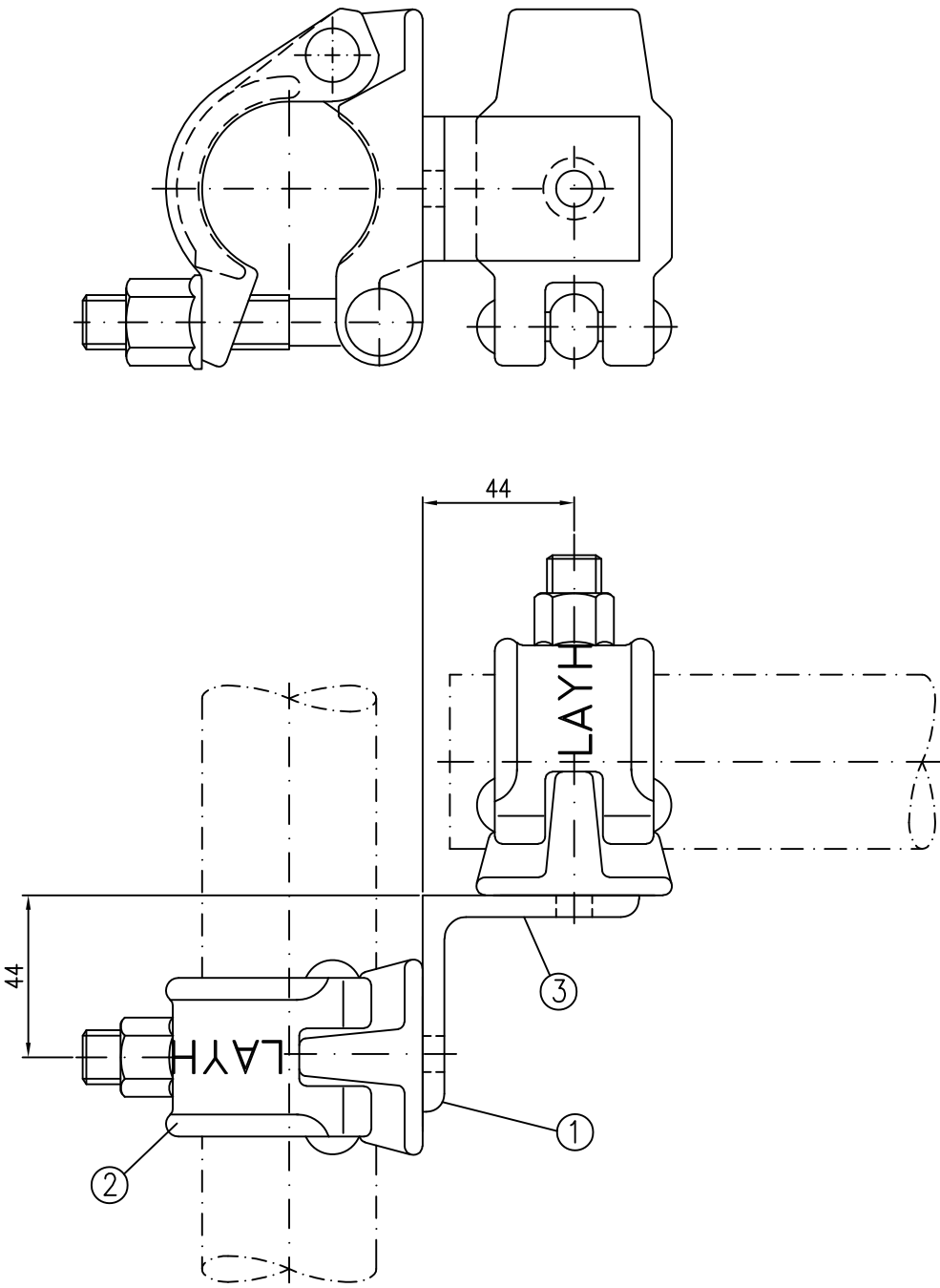
Frame scaffold ALBLITZ 100 S

Lattice girder 5.14 – 6.14 m with tube connector
in accordance with Z-8.1-16.2

ABS710-A085_AB1

12.2021

Annex A,
page 100

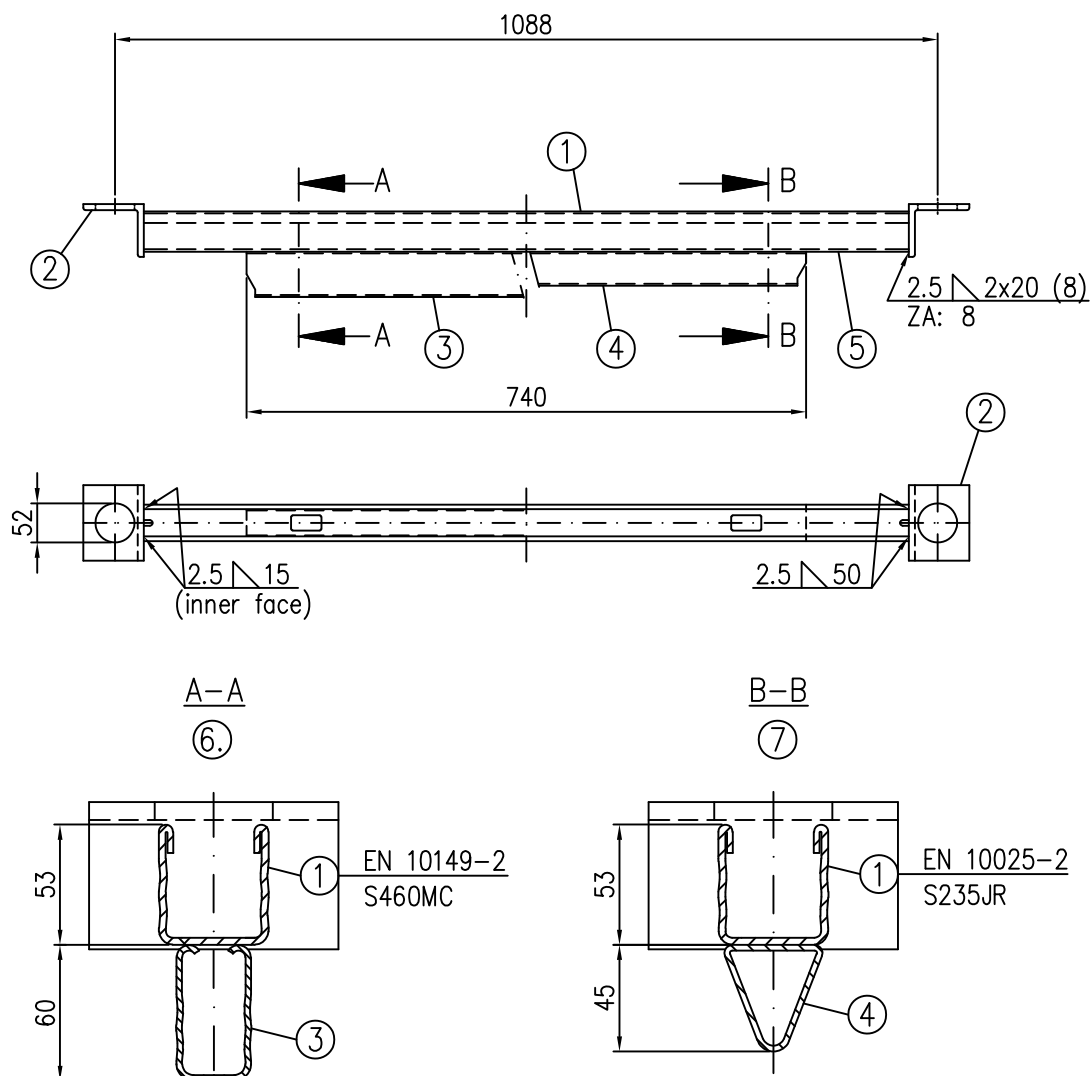


- ① Angle bracket
② Halfcoupler with screw top
③ Marking
- in accordance with approval Z-8.331-882

Weight [kg]
1.6

Frame scaffold ALBLITZ 100 S	Annex A, page 101
Lattice girder coupler in accordance with Z-8.1-16.2	
ABS710-A088_AB1	

12.2021



- | | | |
|-------------------|---------------|-----------------------------|
| ① U-profile | 49 x 53 x 2.5 | (see Annex A, pages 22 ,23) |
| ② Angle bracket | 80 x 65 x 8 | EN 10025-2-S235JR |
| ③ U-reinforcement | 60 x 33 x 2.5 | EN 10149-2-S460MC |
| ④ V-reinforcement | t = 2.5 | EN 10025-2-S235JR |
| ⑤ Marking | | |
| ⑥ (Design A) | | |
| ⑦ (Design B) | | |

Weight [kg]
7.8

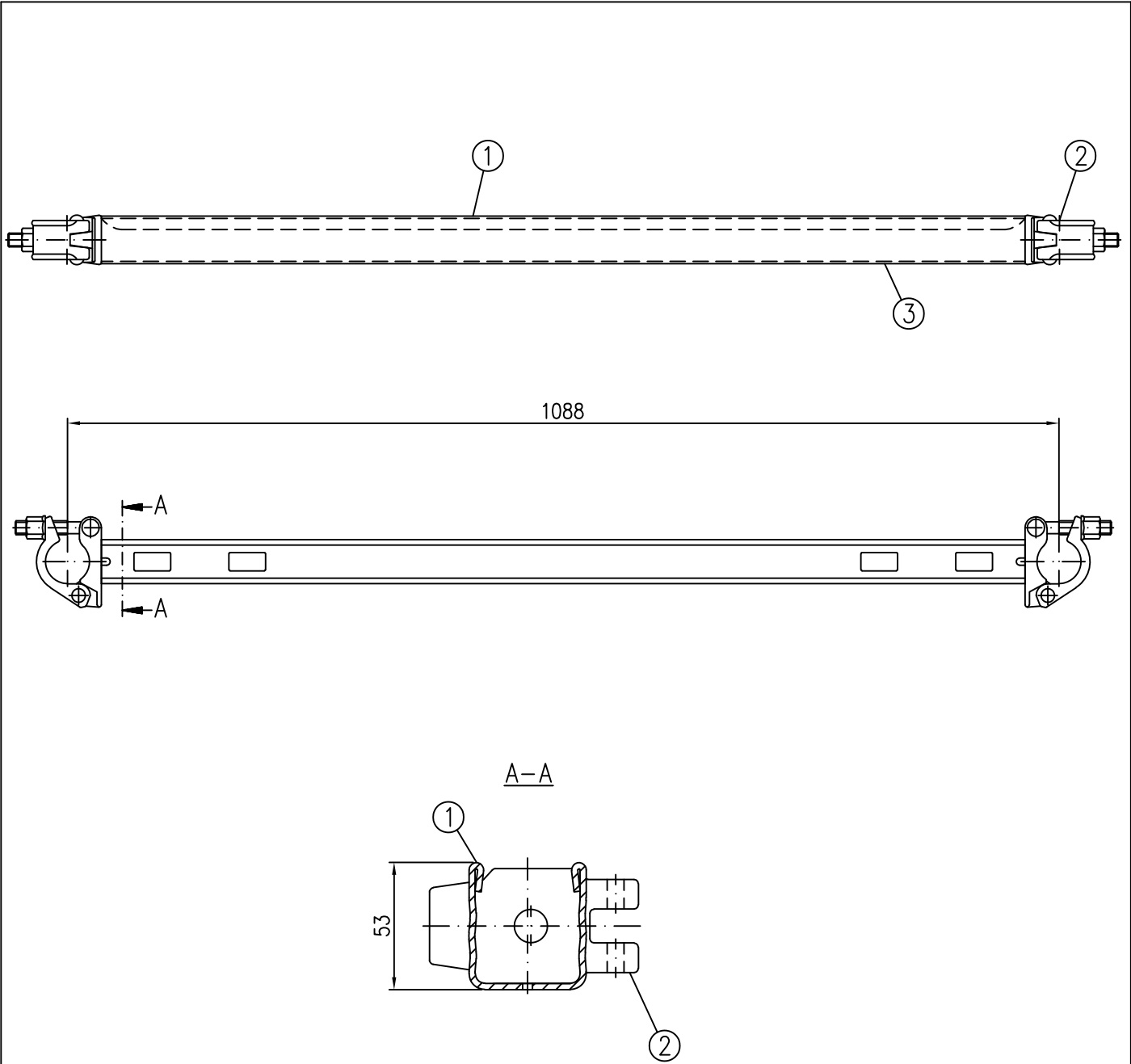
Frame scaffold ALBLITZ 100 S

U-lattice girder ledger 1.09 m
in accordance with Z-8.1-840

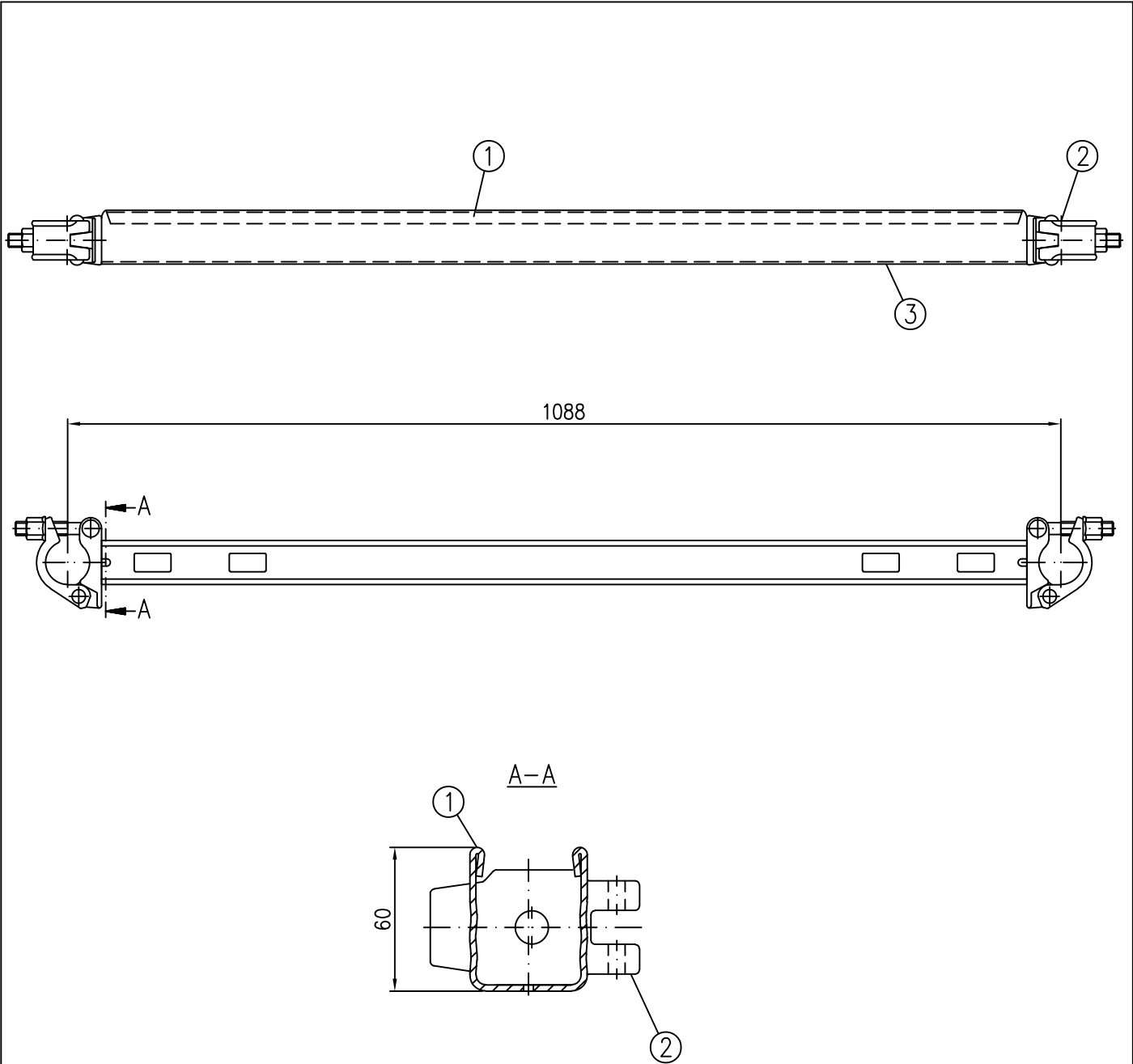
ABS116-A091_AB1

12.2021

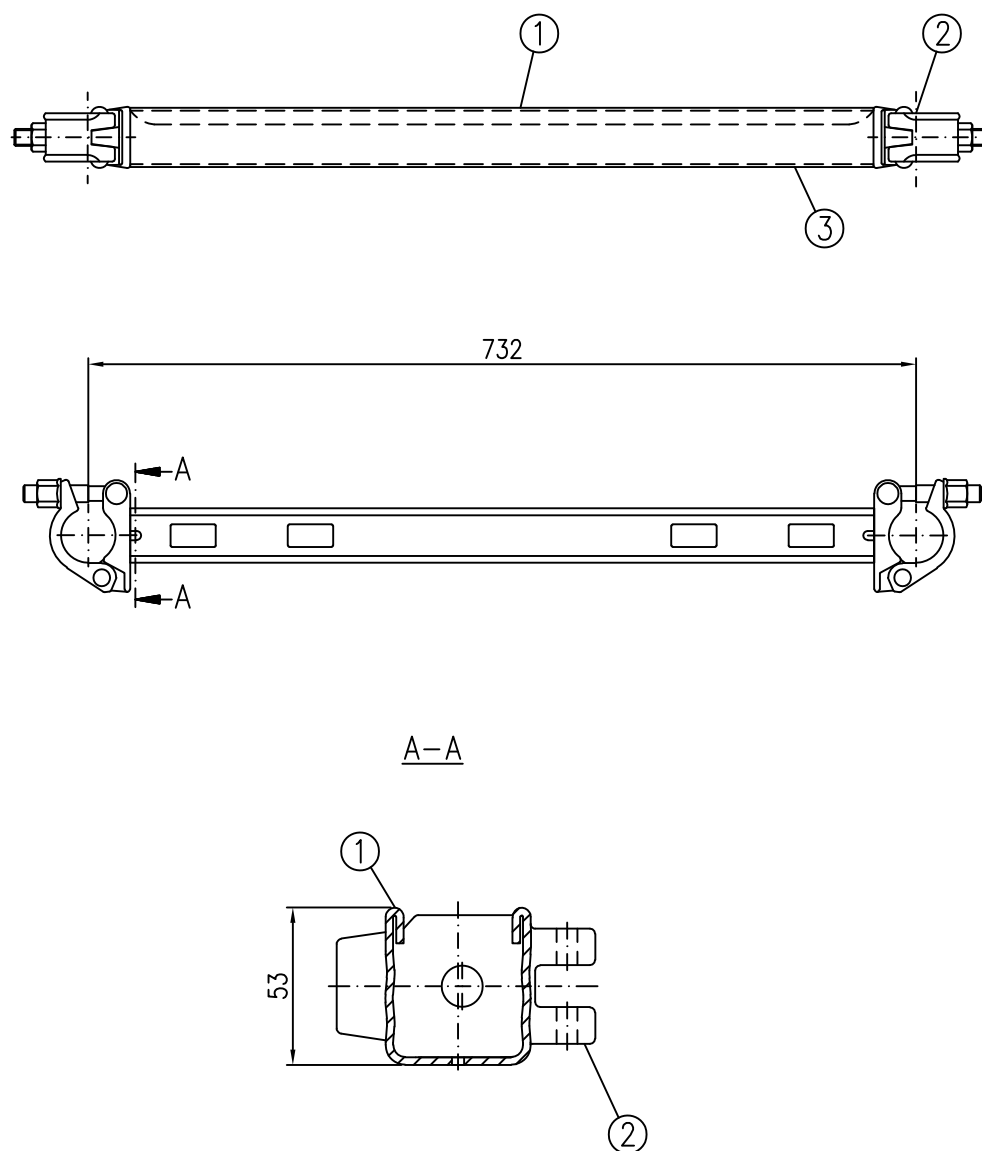
Annex A,
page 102



<div>① U-profile 49 x 53 x 2.5 EN 10149-2 – S460MC (see Annex A, page 22)</div> <div>② Halfcoupler with screw top in accordance with approval Z-8.331-882</div> <div>③ Marking</div>		<div>Weight</div> <div>[kg]</div> <div>5.1</div>
Frame scaffold ALBLITZ 100 S		Annex A, page 103
<div>Lightweight U-transom 1.09 m</div> <div>in accordance with Z-8.1-840</div> <div>ABS116-A093_AB1</div> <div>12.2021</div>		



① U-profile 49 x 60 x 3 (see Annex A, page 24)		Only for continued use— no longer manufactured	Weight [kg]
② Halfcoupler with screw top in accordance with approval Z-8.331-882			5.8
③ Marking			
Frame scaffold ALBLITZ 100 S		Annex A, page 104	
U-transom 1.09 m in accordance with Z-8.1-840			
ABS116-A094_AB1			
		12.2021	



- ① U-profile
- ② Halfcoupler with screw top
- ③ Marking

(see Annex A, pages 22, 23)
in accordance with approval Z-8.331-882

Weight [kg]
3.9

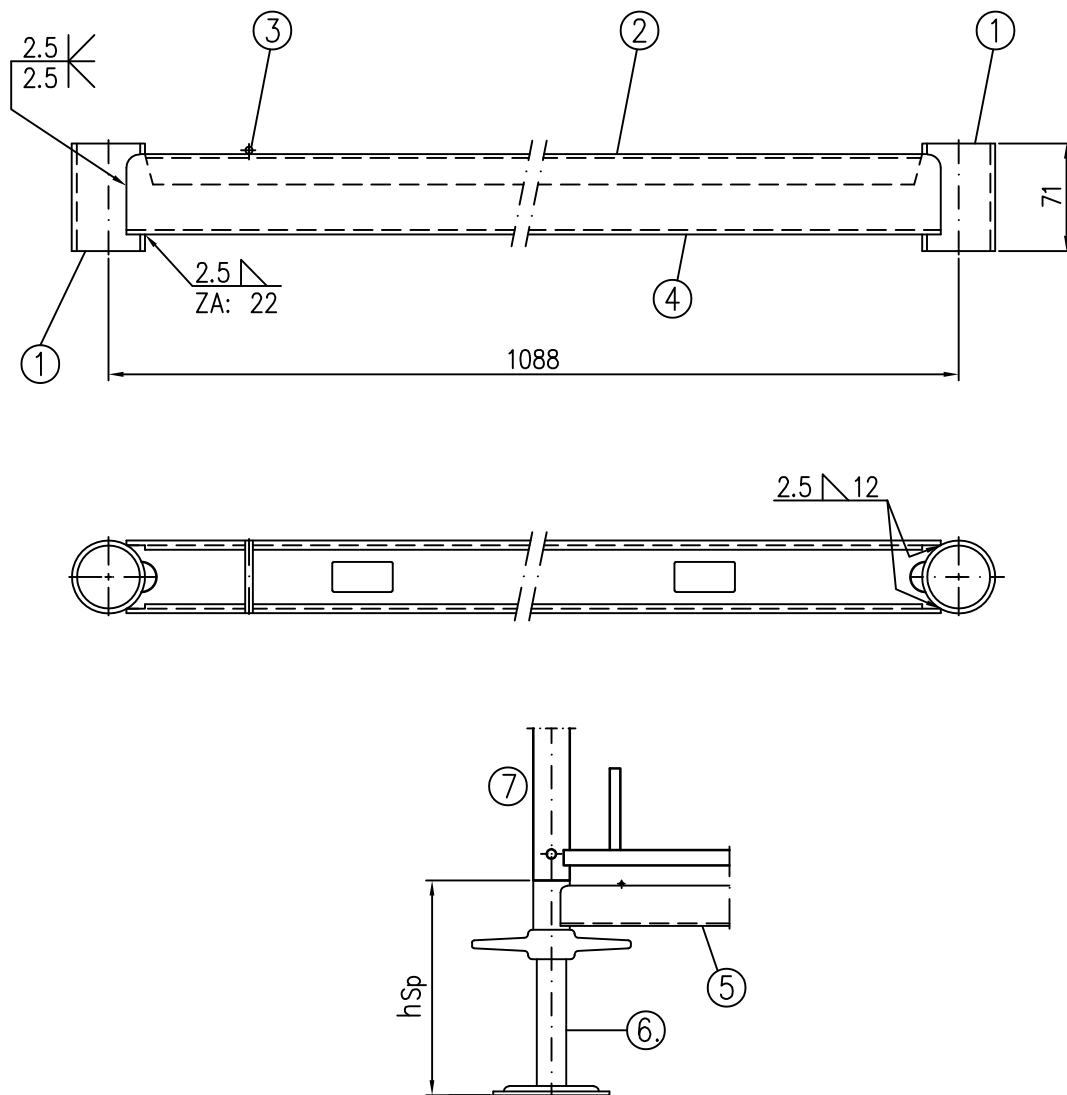
Frame scaffold ALBLITZ 100 S

U-transom 0.73 m
in accordance with Z-8.1-16.2

ABS710-A091_AB1

12.2021

Annex A,
page 105



- | | | | |
|---------------------|---------------|----------------------|----------------------------------|
| ① Tube | ∅48.3 x 3.2 | EN 10219-1 – S235JRH | $R_{eH} \geq 320 \text{ N/mm}^2$ |
| ② U-profile | 49 x 53 x 2.5 | EN 10149-2 – S460MC | (see Annex A, page 22) |
| ③ Pin | | Steel | |
| ④ Marking | | | |
| ⑤ U-starter transom | | | |
| ⑥ Base jack | | | |
| ⑦ Assembly frame | | | |

Weight [kg]
5.1

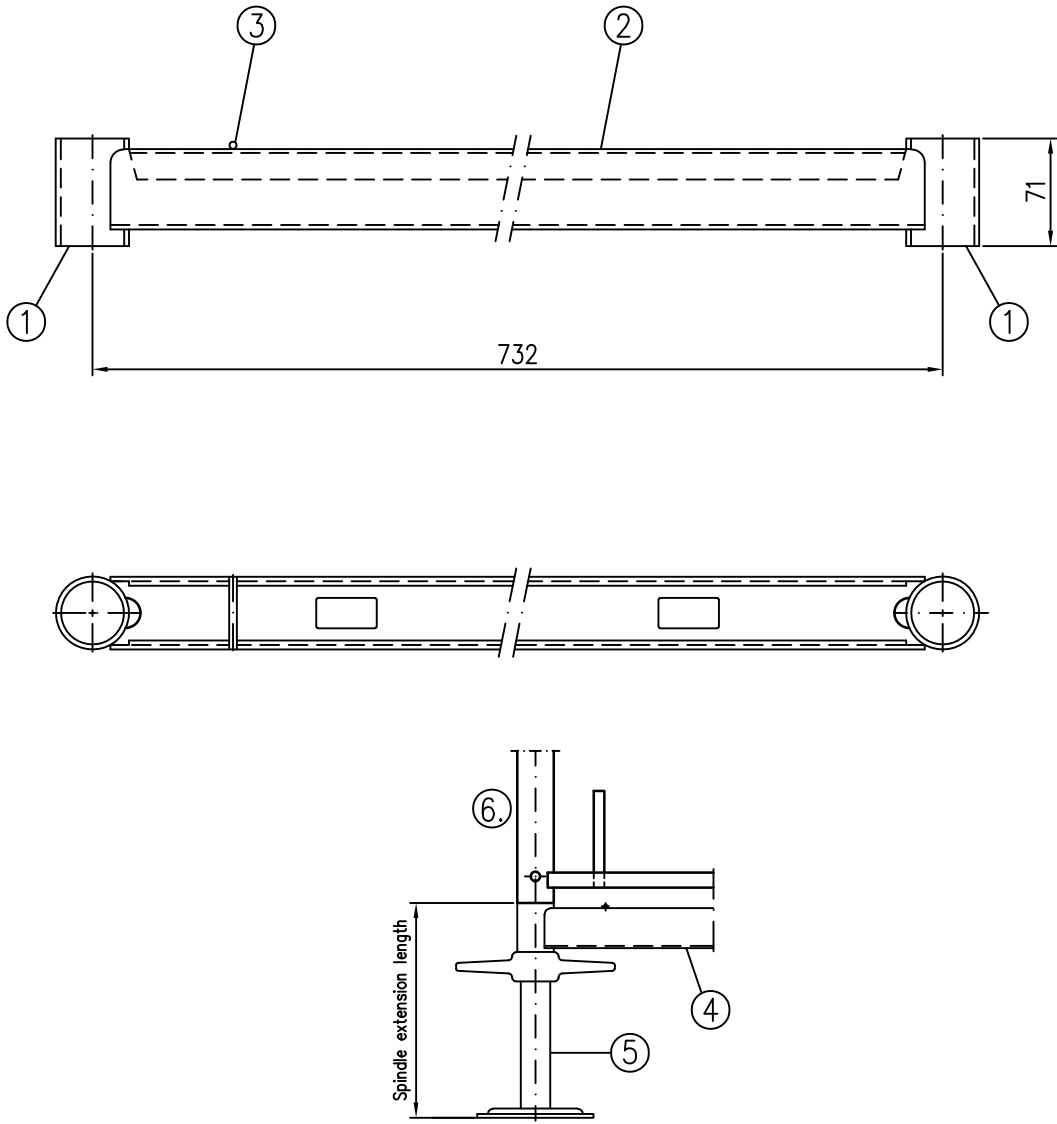
Frame scaffold ALBLITZ 100 S

Lightweight U-starter transom 1.09 m
in accordance with Z-8.1-840

ABS116-A153_AB1

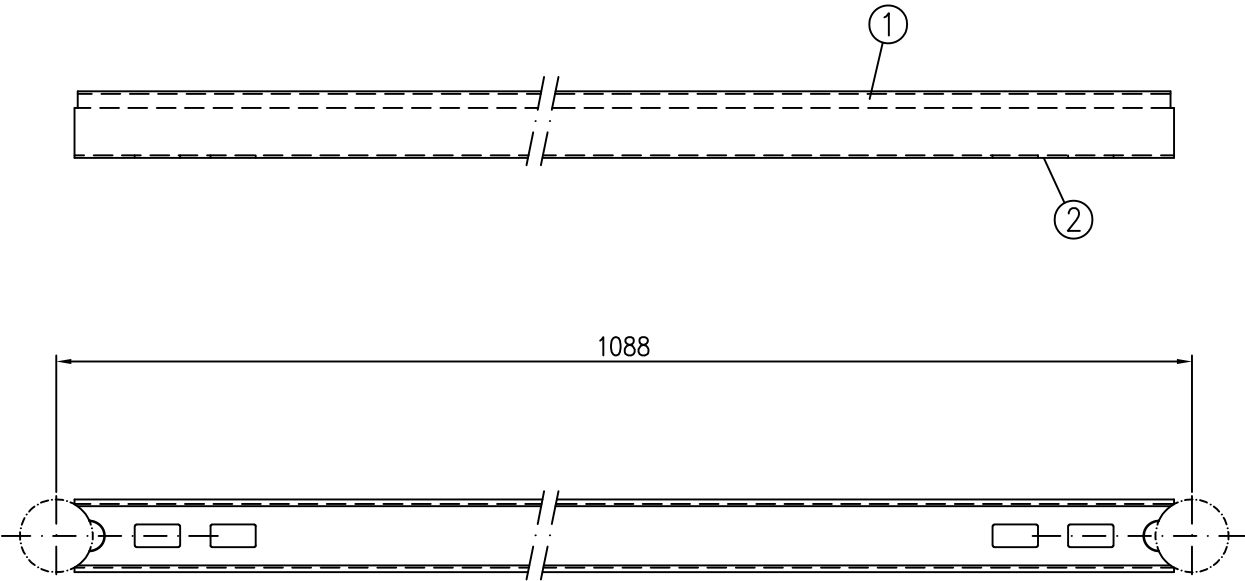
12.2021

Annex A,
page 106



- ① Tube
- ② U-profile (see Annex A, pages 22, 23)
- ③ Pin
- ④ U-starter transom
- ⑤ Base jack
- ⑥ Assembly frame

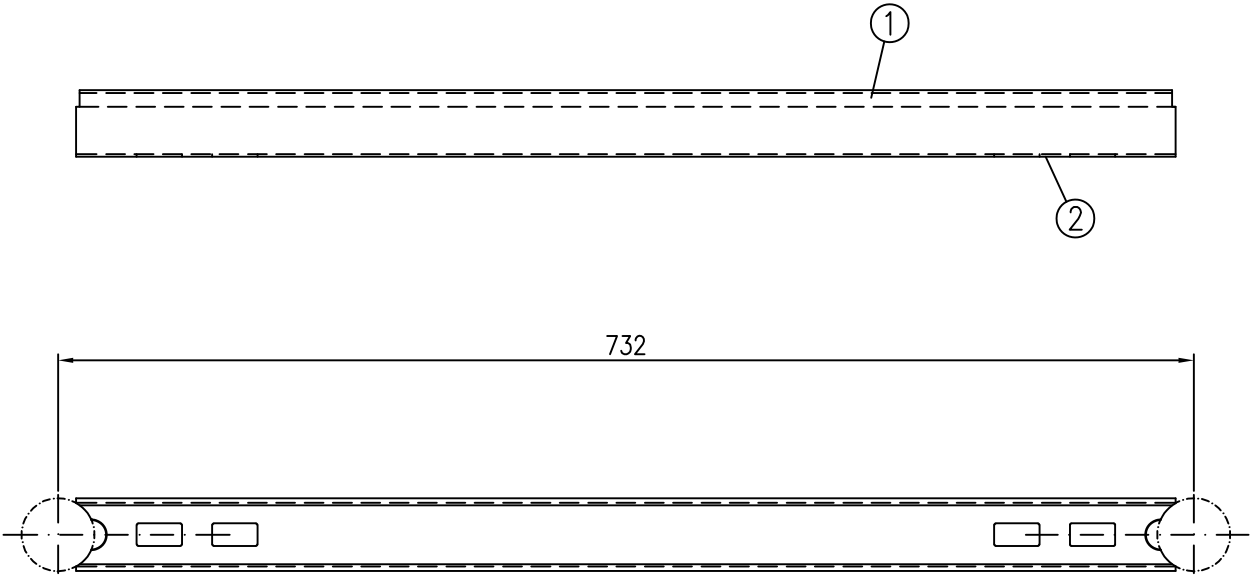
⑤ Base jack		Weight [kg] 3.8
⑥ Assembly frame		
Frame scaffold ALBLITZ 100 S		Annex A, page 107
U-starter transom 0.73 m in accordance with Z-8.1-16.2		
ABS710-A092_AB1	12.2021	



- ① U-profile 49 x 53 x 2.5 EN 10025-2 – S235JR (see Annex A, page 22)
② Marking

Weight [kg]
3.2

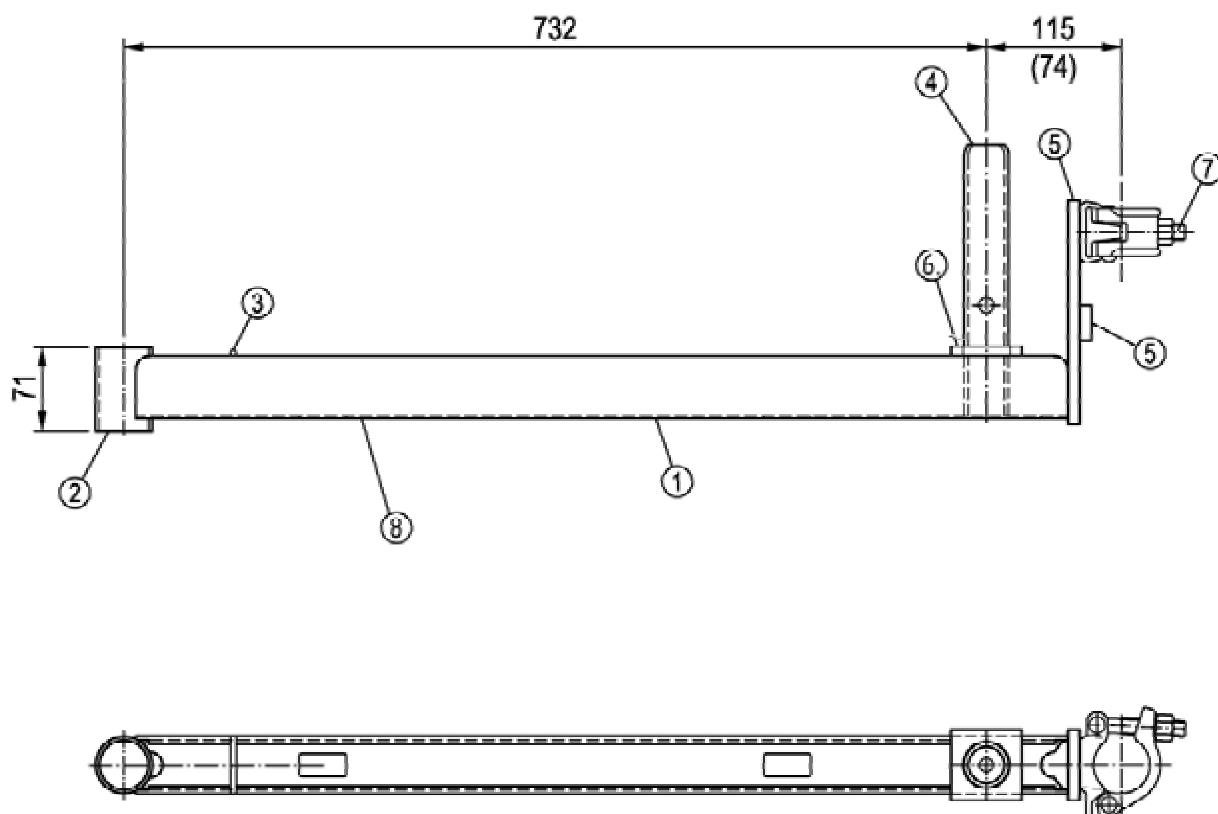
Frame scaffold ALBLITZ 100 S		Annex A, page 108
Plug-in U-starter profile 1.09 m in accordance with Z-8.1-840		
ABS121-A014_AB1	12.2021	



- ① U-profile (see Annex A, page 22)
- ② Marking

Weight [kg]
2.2

Frame scaffold ALBLITZ 100 S		Annex A, page 109
Plug-in U-starter profile 0.73 m in accordance with Z-8.1-16.2		
ABS121-A015_AB1	12.2021	



- ① U-profile (see Annex A, page 22)
 ② Tube
 ③ Pin
 ④ Tube connector
 ⑤ Plate
 ⑥ Plate
 ⑦ Halfcoupler with screw top in accordance with approval Z-8.331-882
 ⑧ Marking

Weight [kg]
5.4

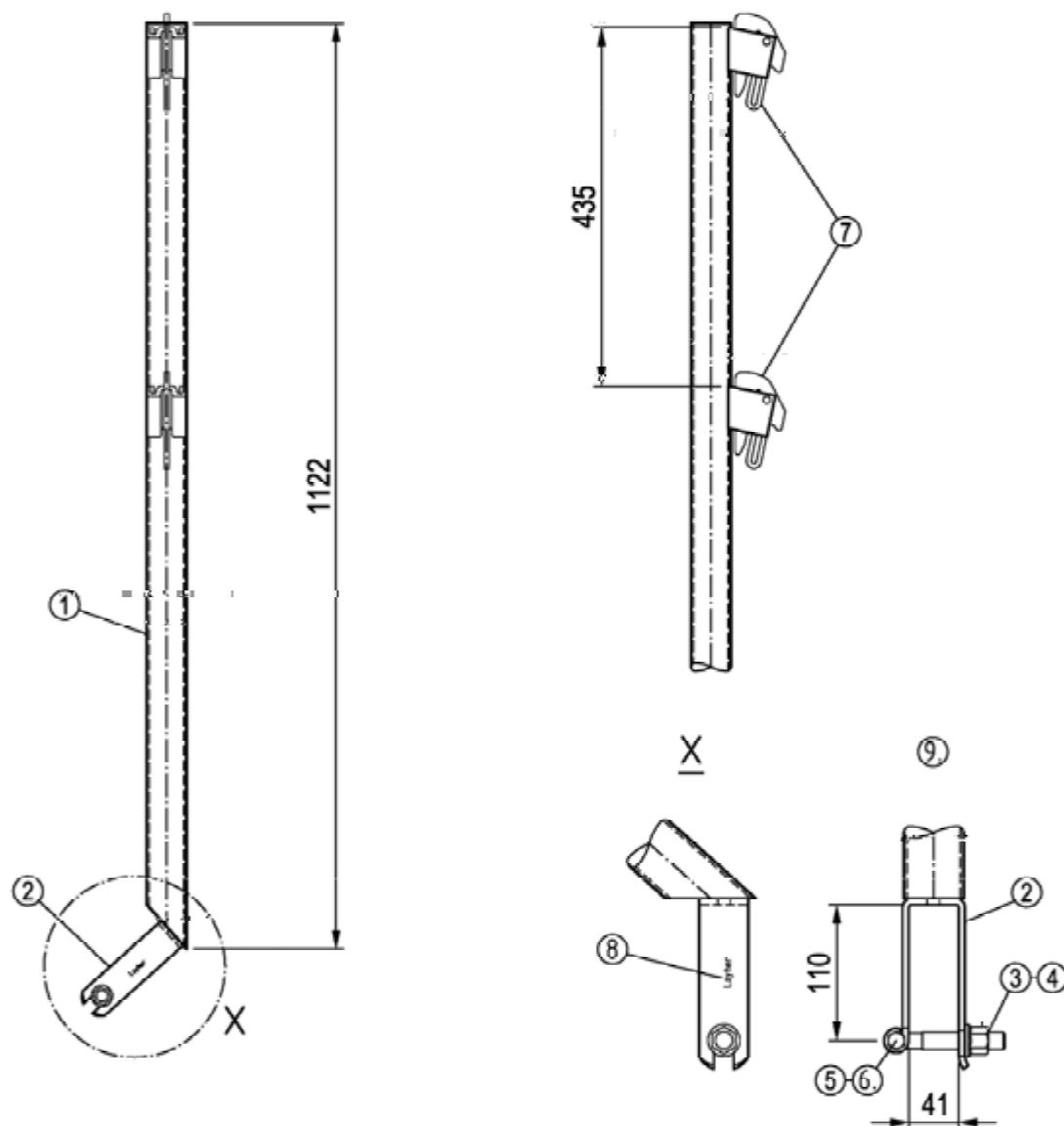
Frame scaffold ALBLITZ 100 S

U-starter transom for platform stairway
in accordance with Z-8.1-16.2

ABS121-A016_AB1

12.2021

Annex A,
page 110



- ① Tube
- ② U-bracket
- ③ Eyebolt
- ④ Collar nut
- ⑤ Hexagon bolt
- ⑥ Locking nut
- ⑦ Guardrail wedge housing (see Annex A, page 25)
- ⑧ Marking
- ⑨ Detail lateral view

Weight [kg]
5.1

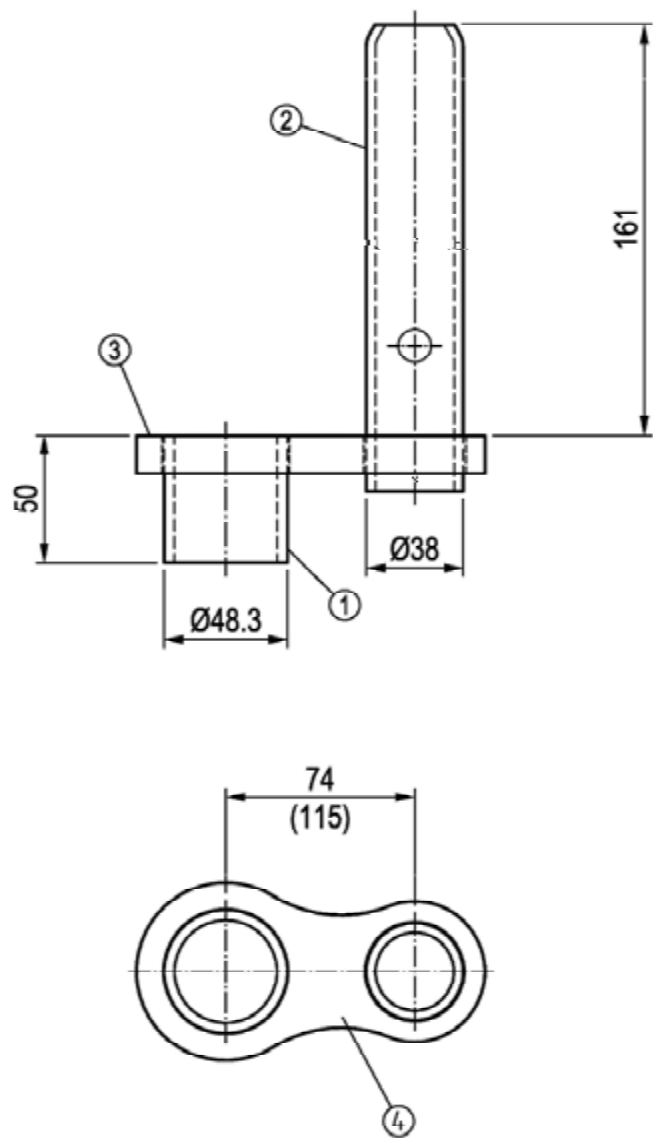
Frame scaffold ALBLITZ 100 S

Stairway post 1.10 m
in accordance with Z-8.1-16.2

ABS121-A017_AB1

12.2021

Annex A,
page 111

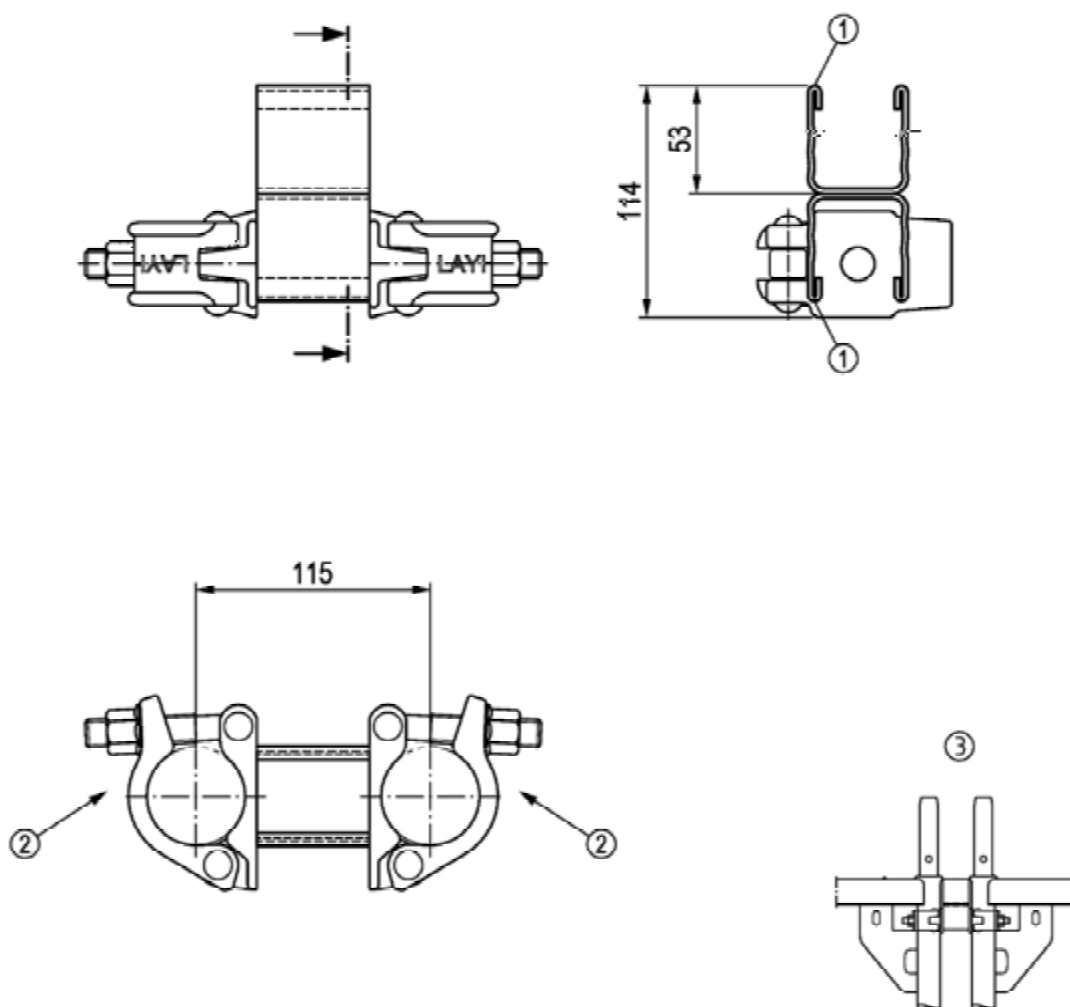


- ① Tube
- ② Tube connector
- ③ Plate
- ④ Marking

Dimens. [mm]	Weight [kg]
74	1.3
115	1.4

Frame scaffold ALBLITZ 100 S	Annex A, page 112
Corner adapter 74 (115) in accordance with Z-8.1-16.2	
ABS121-A018_AB1	

12.2021



① U-profile

② Halfcoupler with screw top

③ Installation drawing

(see Annex A, page 22)

in accordance with approval Z-8.331-882

Weight [kg]
2.0

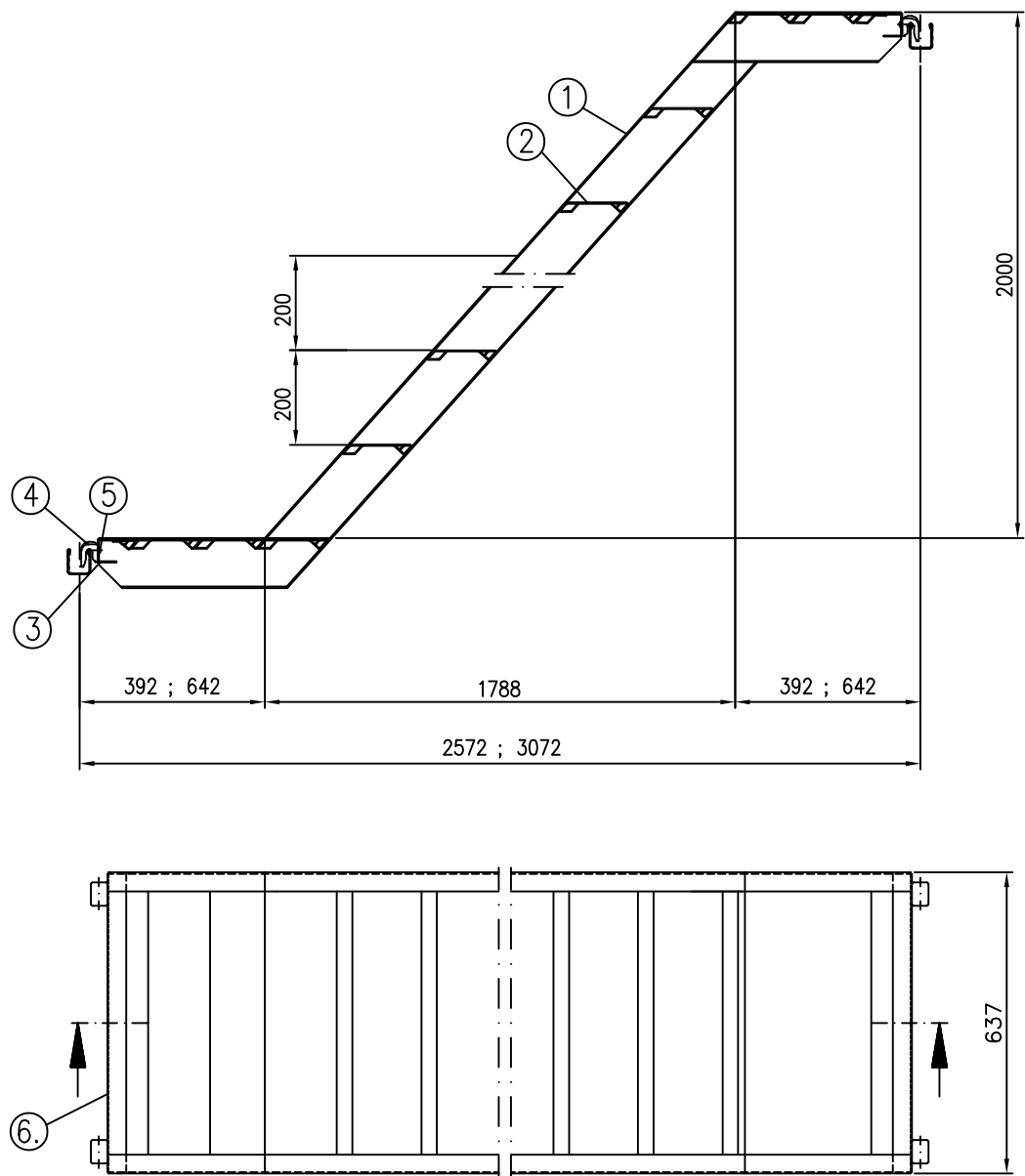
Frame scaffold ABLITZ 100 S

U-distance coupler
in accordance with Z-8.1-16.2

ABS121-A019_AB1

12.2021

Annex A,
page 113



- ① Stairway stringer
- ② Stairway step
- ③ U-cap
- ④ Claw
- ⑤ Round-head rivet
- ⑥ Marking

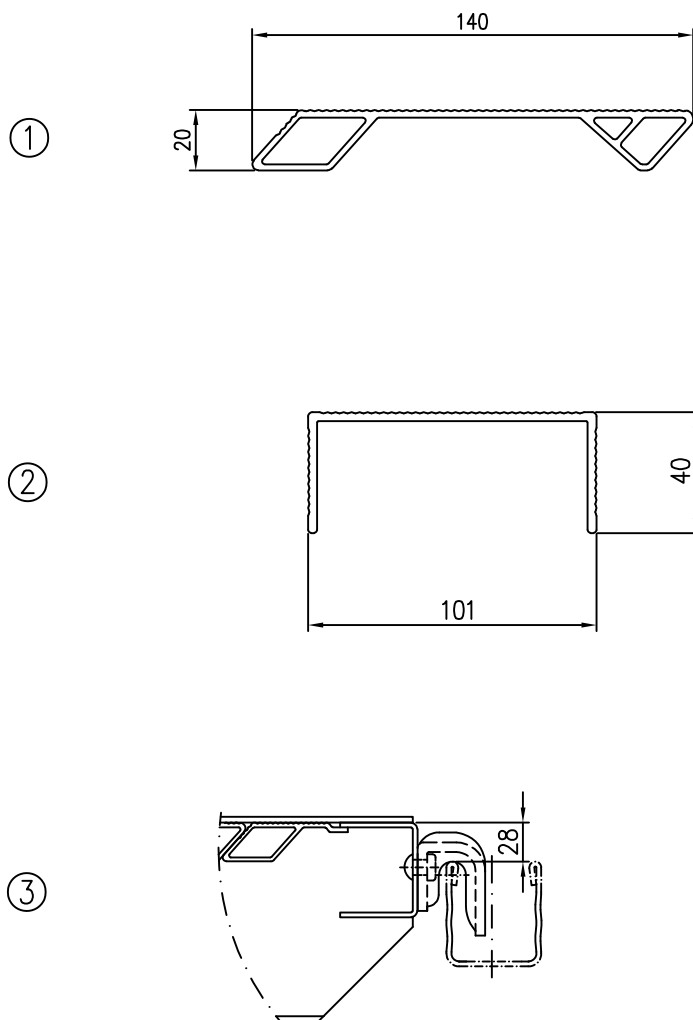
Detailed view stairway step; stairway stringer and suspension see Annex A, page 115

maximum live load: 2.0 kN/m²

Dimens. [m]	Weight [kg]
2.57	21.9
3.07	26.3

Frame scaffold ALBLITZ 100 S	Annex A, page 114
Aluminium U-platform stairway 2.57; 3.07 x 2.00 x 0.64 m in accordance with Z-8.1-16.2	
ABS710-A093_AB1	

12.2021



- ① Detailed view stairway step
- ② Detailed view stairway stringer
- ③ Detailed view suspension

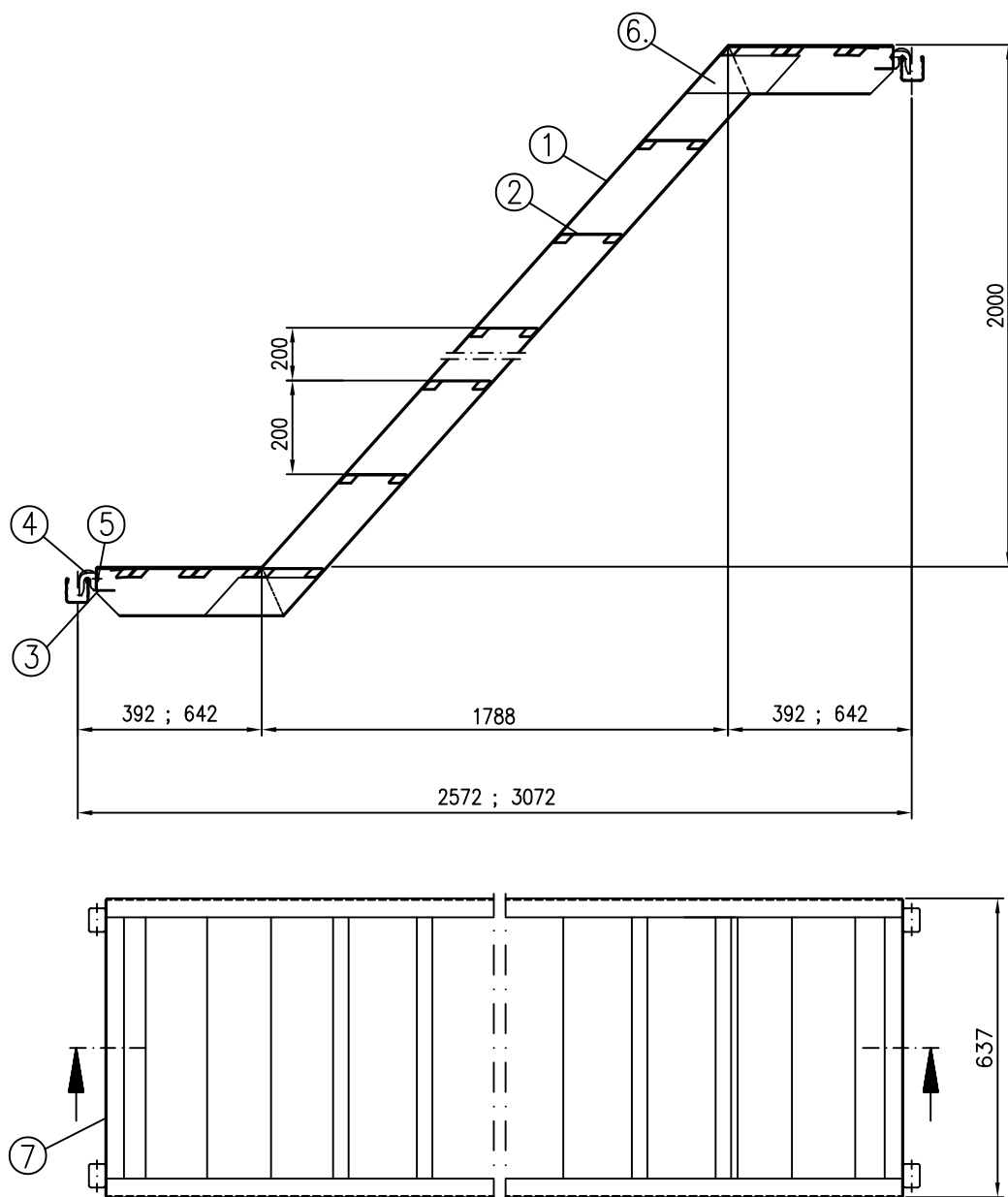
Frame scaffold ALBLITZ 100 S

Detailed view aluminium U-platform stairway
 in accordance with Z-8.1-16.2

ABS105-A096_AB1

12.2021

Annex A,
 page 115



- ① Stairway stringer
- ② Stairway step
- ③ U-cap
- ④ Claw
- ⑤ Round-head rivet
- ⑥ Reinforcing plate
- ⑦ Marking

maximum live load: 2.0 kN/m²

Only for continued use—
no longer manufactured

Dimens. [m]	Weight [kg]
2.57	23.1
3.07	27.5

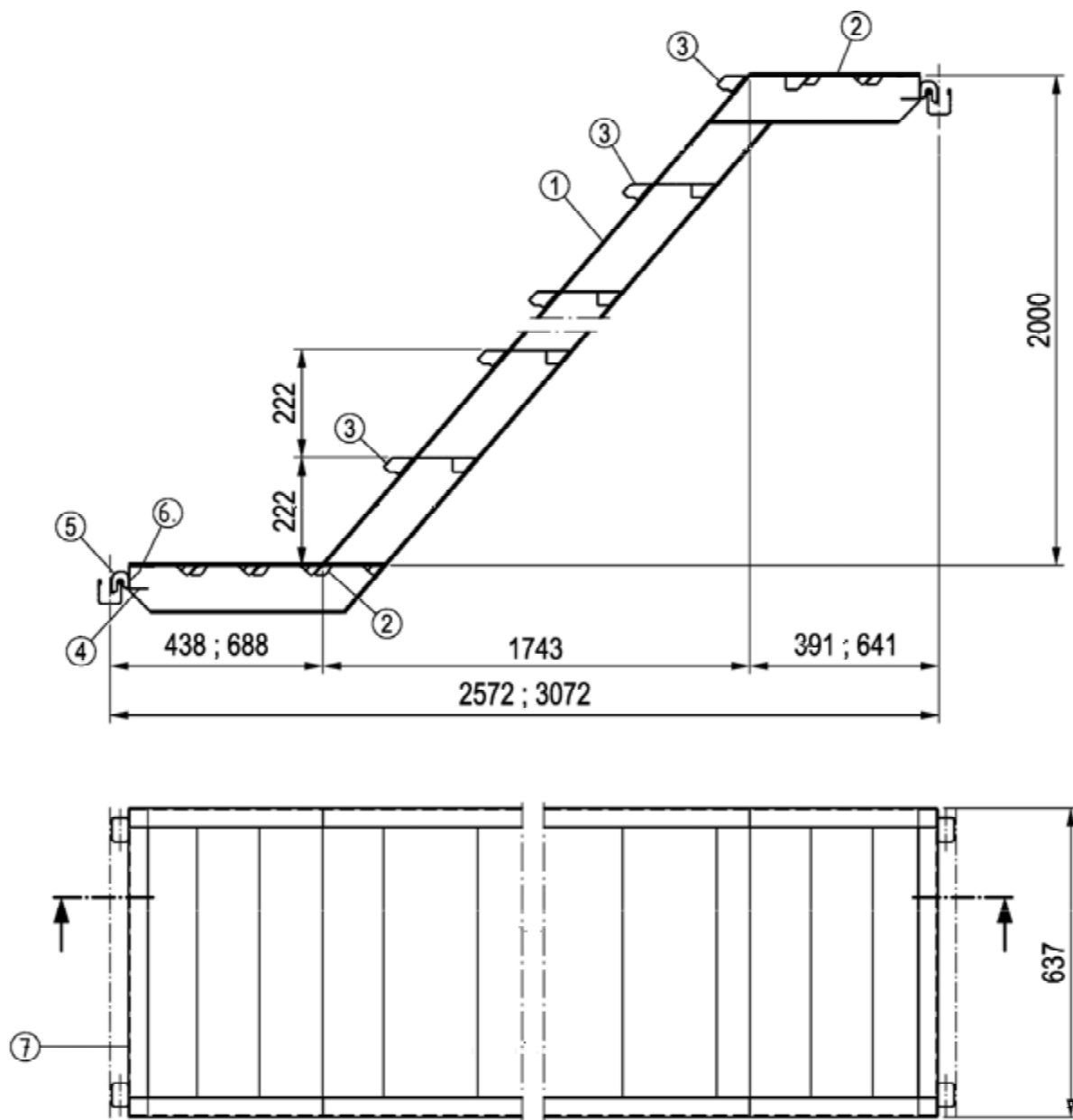
Frame scaffold ALBLITZ 100 S

Aluminium U-platform stairway 2.57; 3.07 m (discontinued design)
in accordance with Z-8.1-16.2

ABS710-A095_AB1

12.2021

Annex A,
page 116



- ① Komfort stairway stringer
- ② Stairway step
- ③ Komfort stairway step
- ④ U-cap
- ⑤ Claw
- ⑥ Round-head rivet
- ⑦ Marking

maximum live load: 2.0 kN/m²

Dimens. [m]	Weight [kg]
2.57	21.5
3.07	21.5

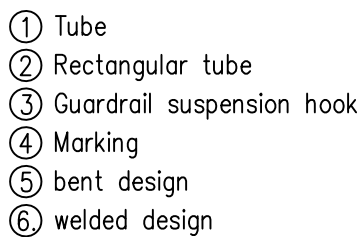
Frame scaffold ALBLITZ 100 S

U-Komfort stairway 2.57; 3.07 x 2.00 x 0.64 m
in accordance with Z-8.22-939

ABS121-A020_AB1

12.2021

Annex A,
page 117

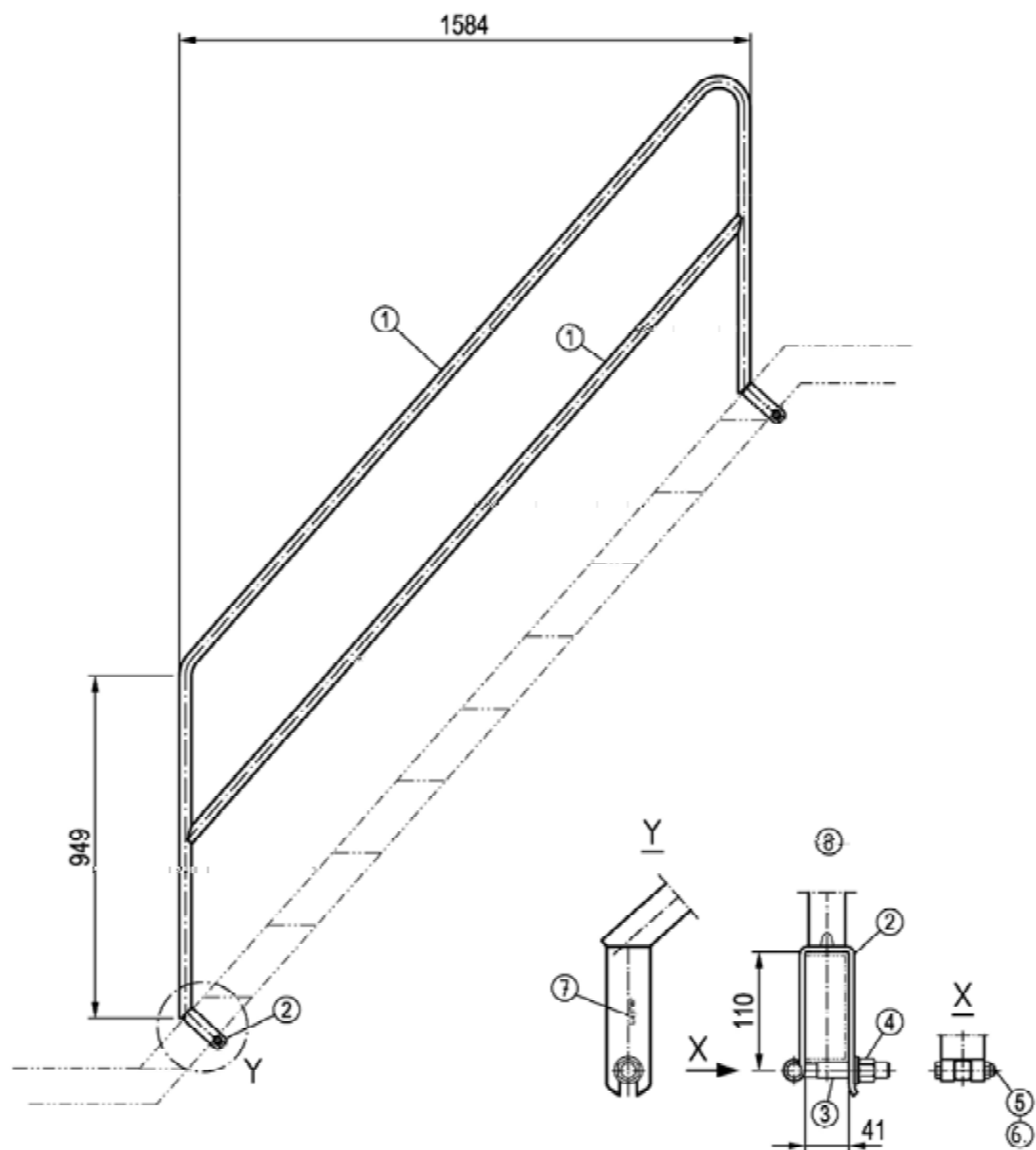


Dimens. [m]	Weight [kg]
2.57	16.1
3.07	17.6

Stair guardrail 2.57; 3.07 m
in accordance with Z-8.1-16.2

12.2021

Annex A,
page 118



- ① Tube
- ② U-bracket
- ③ Eyebolt
- ④ Collar nut
- ⑤ Hexagon bolt
- ⑥ Locking nut
- ⑦ Marking
- ⑧ Detail lateral view

Weight [kg]
13.5

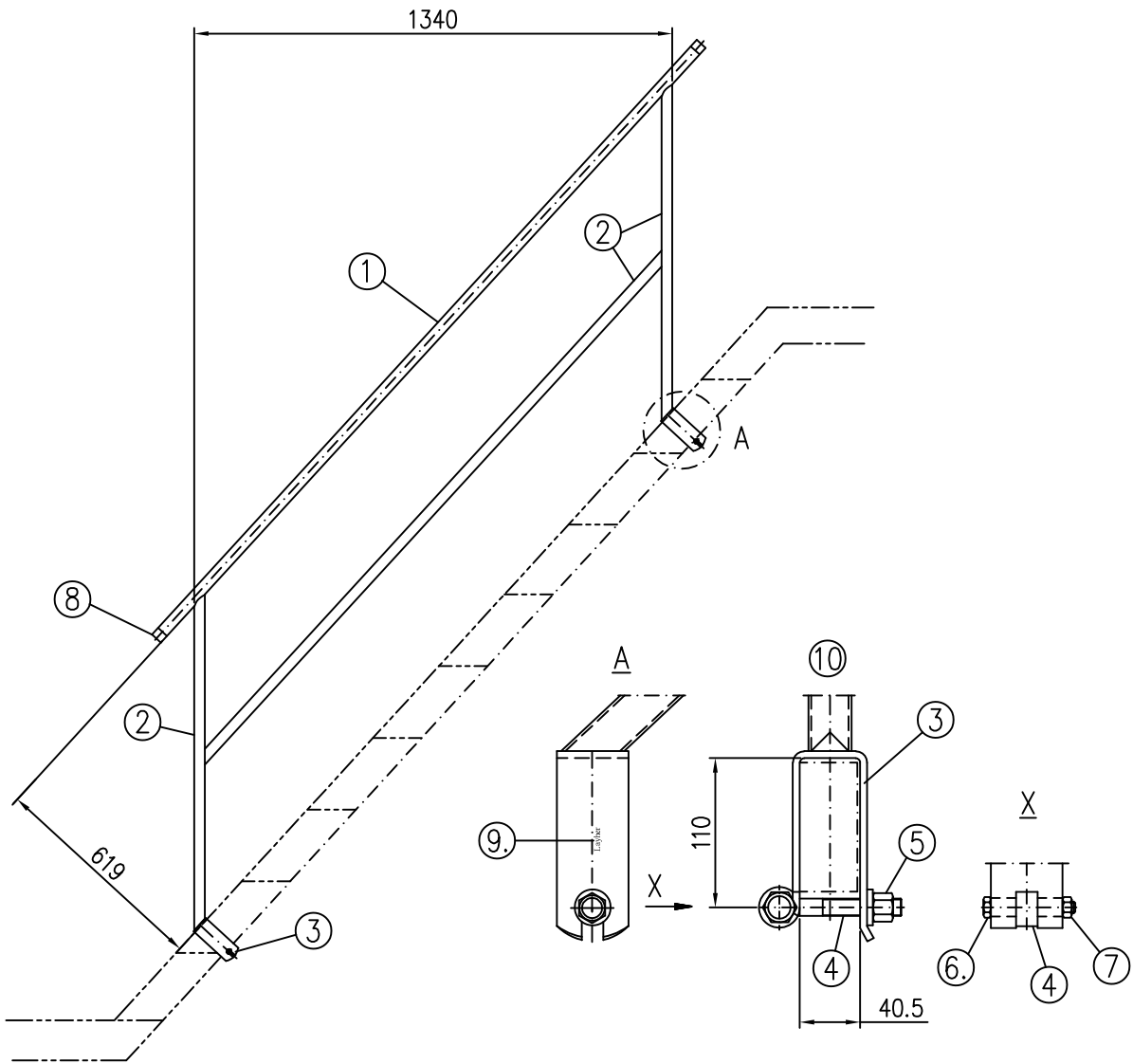
Frame scaffold ALBLITZ 100 S

Inner guardrail for stairway
in accordance with Z-8.1-16.2

ABS121-A021_AB1

12.2021

Annex A,
page 119

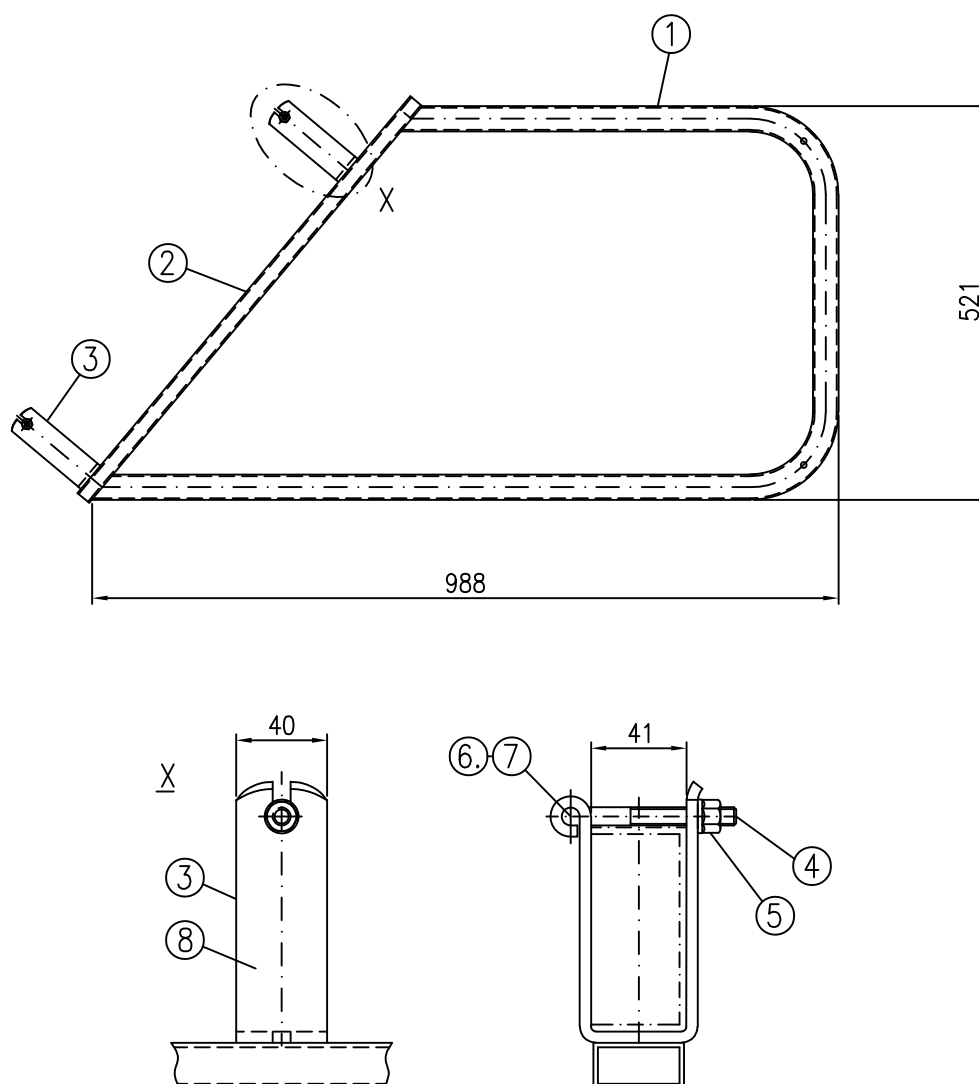


- ① Tube
- ② Square tube
- ③ U-bracket
- ④ Eyebolt
- ⑤ Collar nut
- ⑥ Hexagon bolt
- ⑦ Locking nut
- ⑧ Tube end cap
- ⑨ Marking
- ⑩ Detail lateral view

Only for continued use—
no longer manufactured

Weight [kg]
12.5

Frame scaffold ALBLITZ 100 S	Annex A, page 120
Inner guardrail for stairway (discontinued design) in accordance with Z-8.1-16.2 ABS710-A097_AB1	



- ① Tube
- ② Rectangular tube
- ③ U-bracket
- ④ Eyebolt
- ⑤ Collar nut
- ⑥ Hexagon bolt
- ⑦ Locking nut
- ⑧ Marking

Weight [kg]
6.2

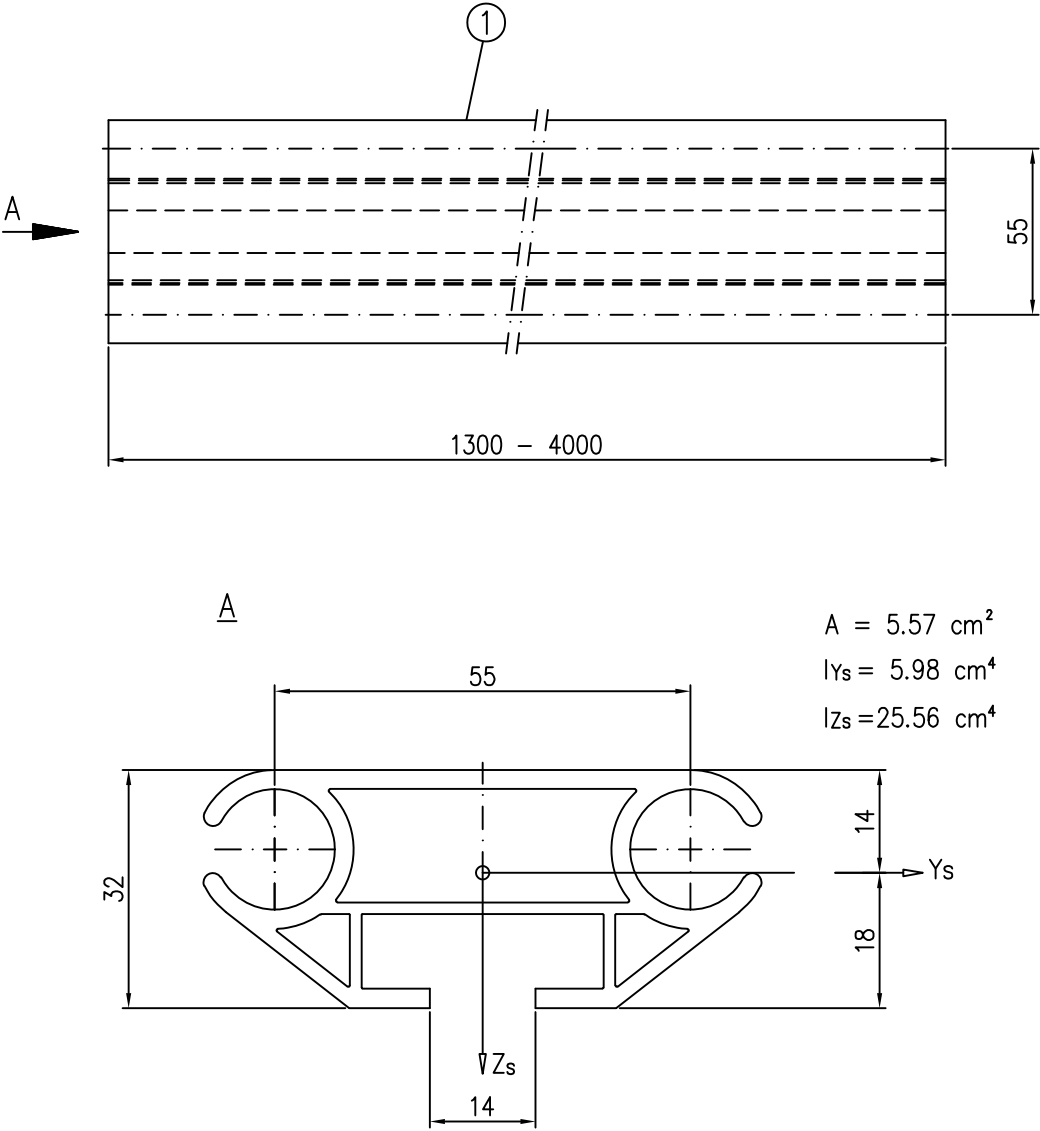
Frame scaffold ALBLITZ 100 S

Stairway guardrail 1.0 x 0.5 m
 in accordance with Z-8.1-16.2

ABS717-A207_AB1

12.2021

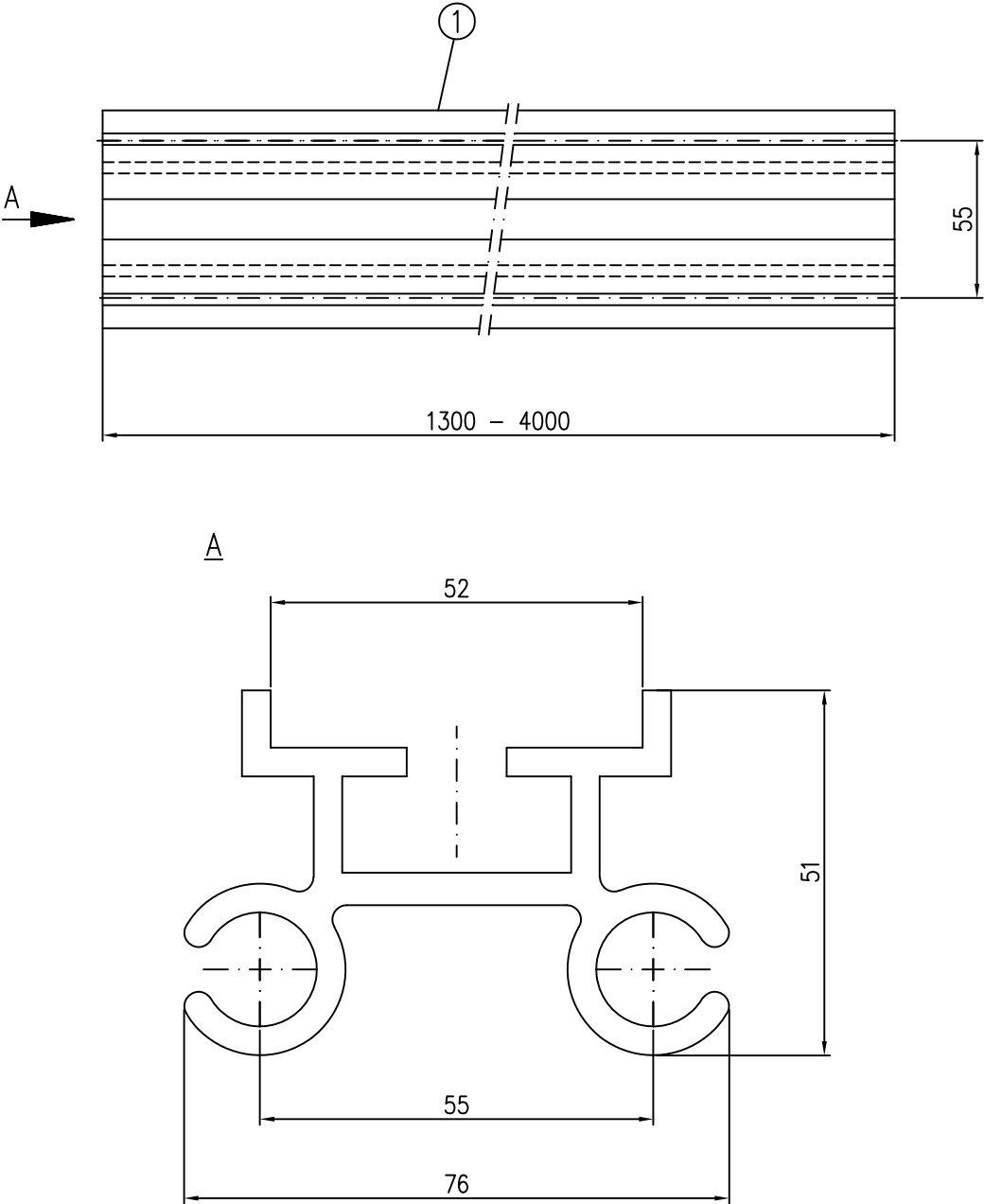
Annex A,
 page 121



① Profile

Dimens. [m]	Weight [kg]
1.30	2.0
2.00	3.0
2.25	3.3
4.00	6.0

Frame scaffold ALBLITZ 100 S	Annex A, page 122
Keder rail 2000, aluminium in accordance with Z-8.1-16.2	
ABS711-A099_AB1	

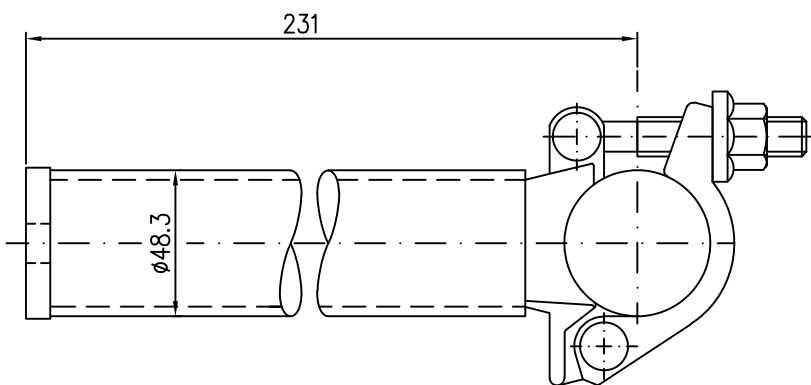
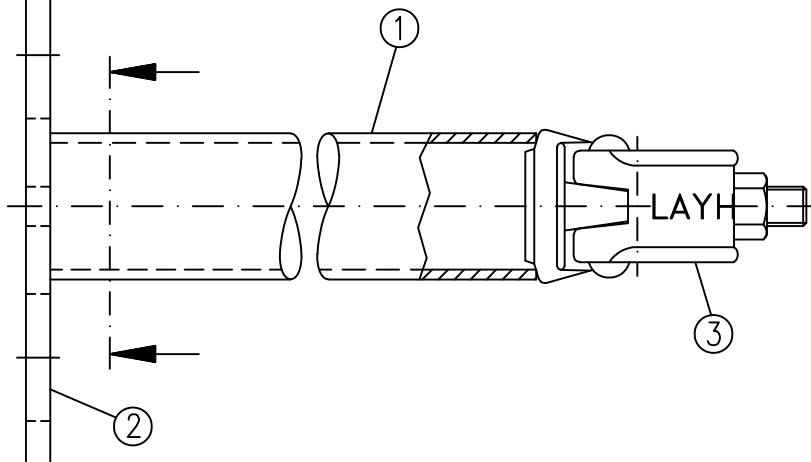
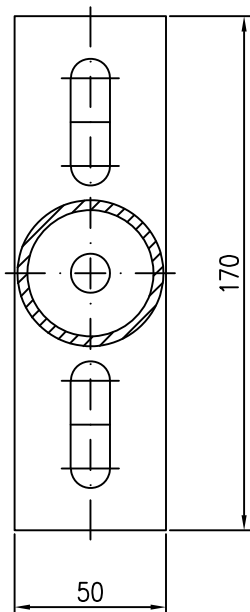


① Profile

Only for continued use—
no longer manufactured

Dimens. [m]	Weight [kg]
1.30	3.8
2.00	5.9
2.25	6.6
4.00	11.8

Frame scaffold ALBLITZ 100 S		Annex A, page 123
Keder rail, aluminium (discontinued design) in accordance with Z-8.1-16.2		
ABS710-A100_AB1	12.2021	



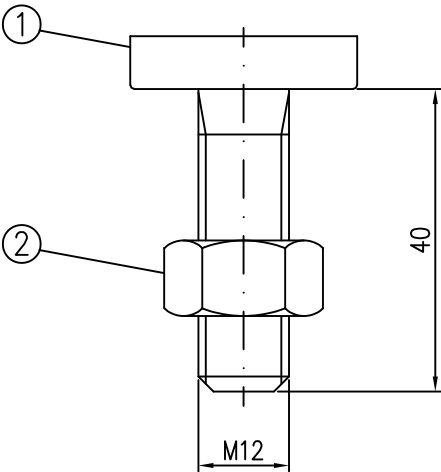
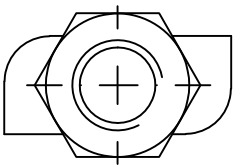
- ① Tube
- ② Butt strap
- ③ Halfcoupler with screw top

in accordance with approval Z-8.331-822

Weight [kg]
1.7

Frame scaffold ALBLITZ 100 S	Annex A, page 124
Rail holder with halfcoupler in accordance with Z-8.1-16.2 ABS710-A101_AB1	

12.2021

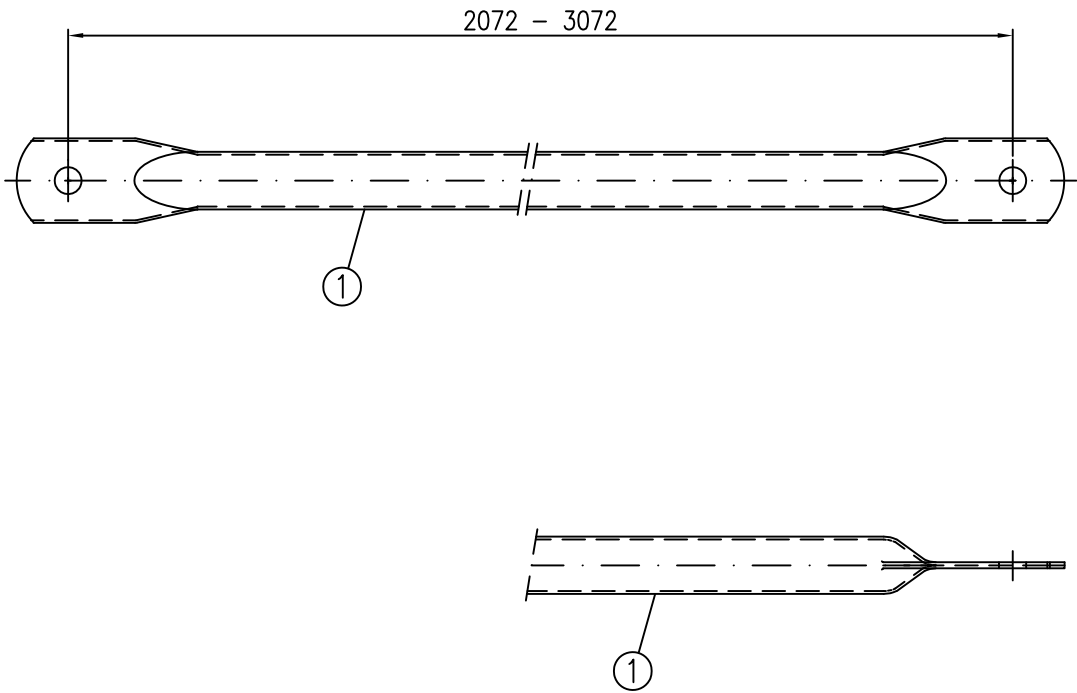


- ① Slot bolt
- ② Hexagon nut

Weight [kg]
0.1

Frame scaffold ALBLITZ 100 S	Annex A, page 125
Keder slotted screw with nut in accordance with Z-8.1-16.2	
ABS710-A102_AB1	

12.2021



① Tube

Dimens. [m]	Weight [kg]
2.07	4.2
2.57	5.1
3.07	6.0

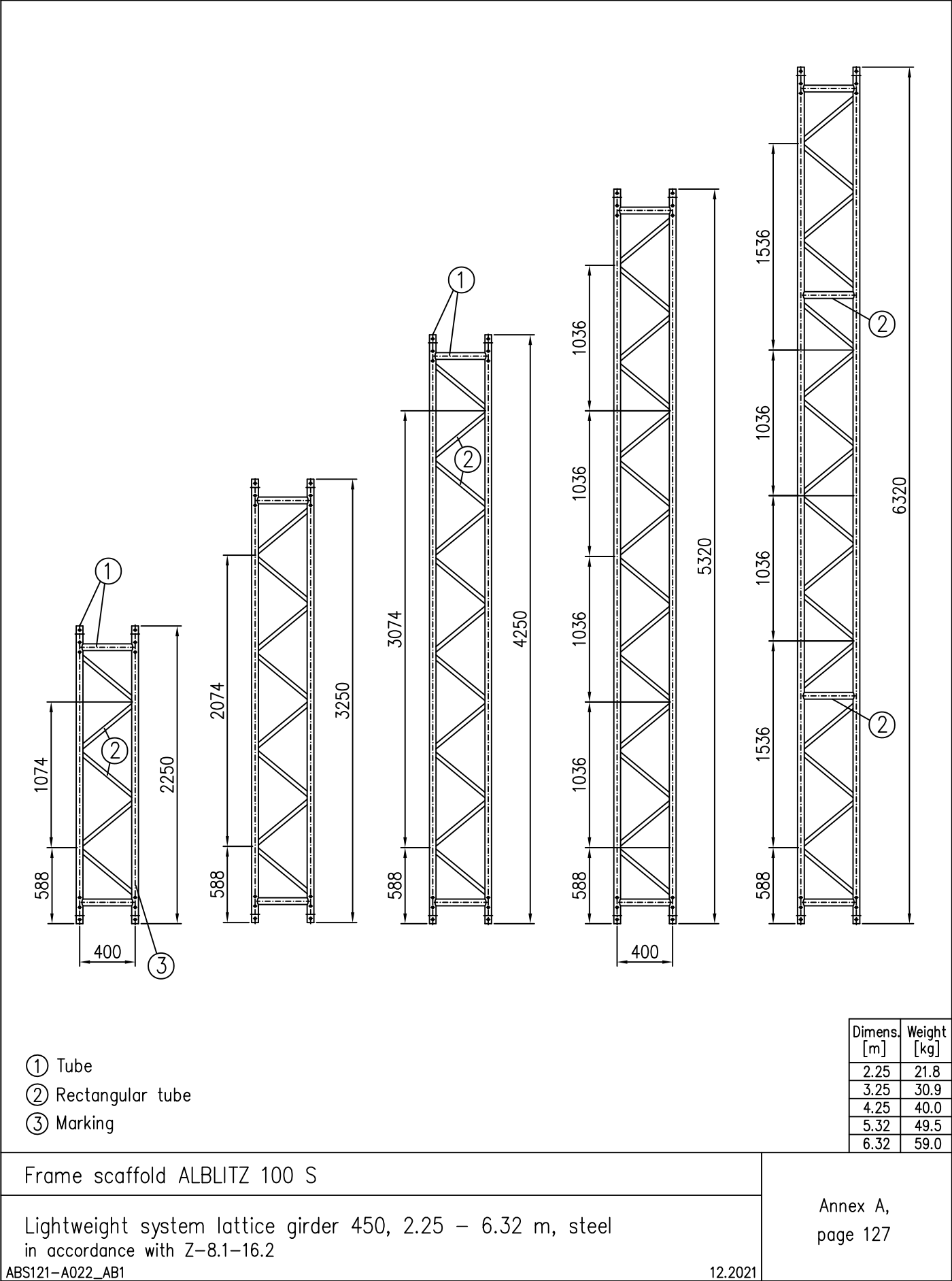
Frame scaffold ALBLITZ 100 S

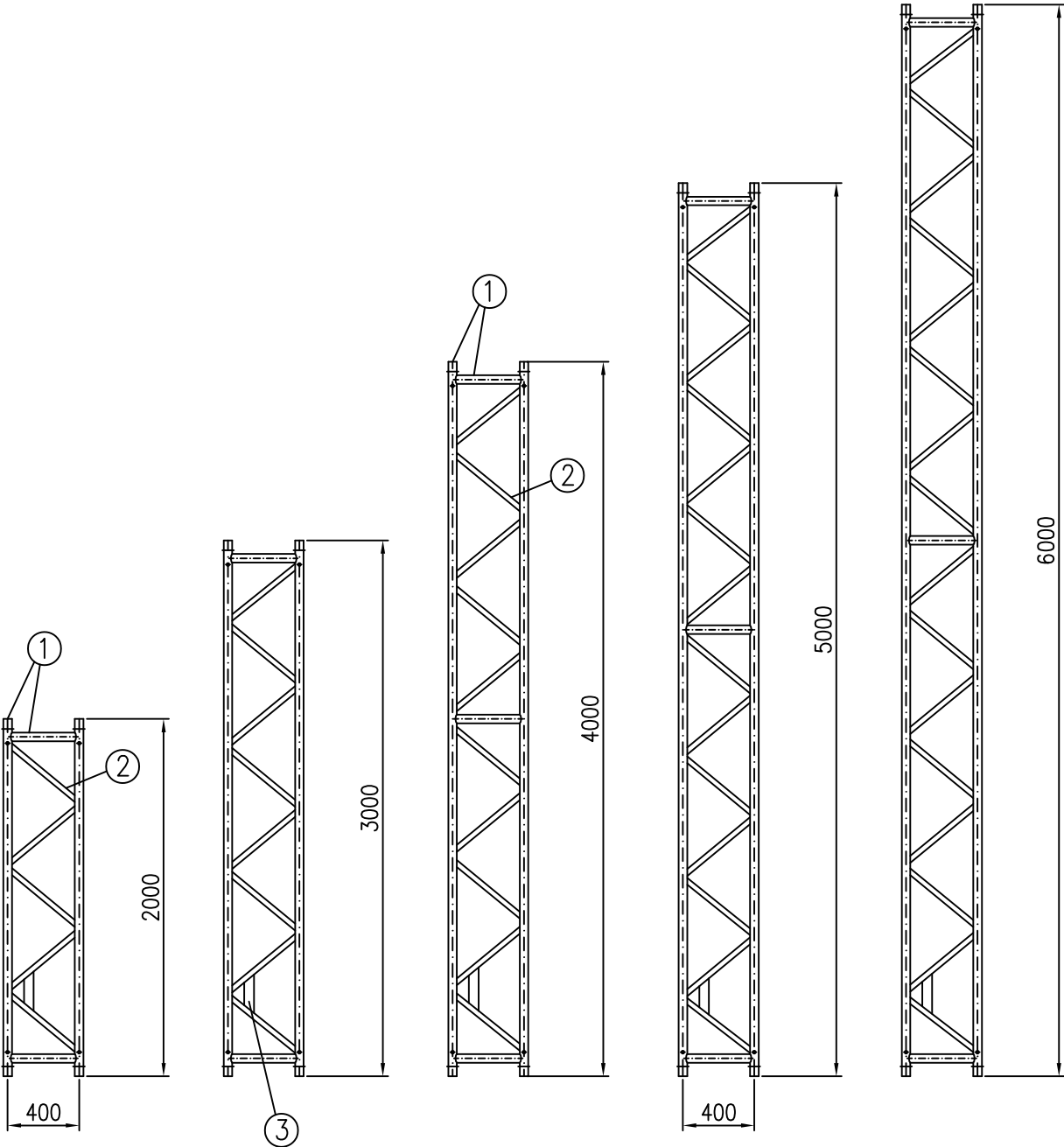
Keder tube brace 2.07 – 3.07 m
in accordance with Z-8.1-16.2

ABS710-A103_AB1

10.2016

Annex A,
page 126

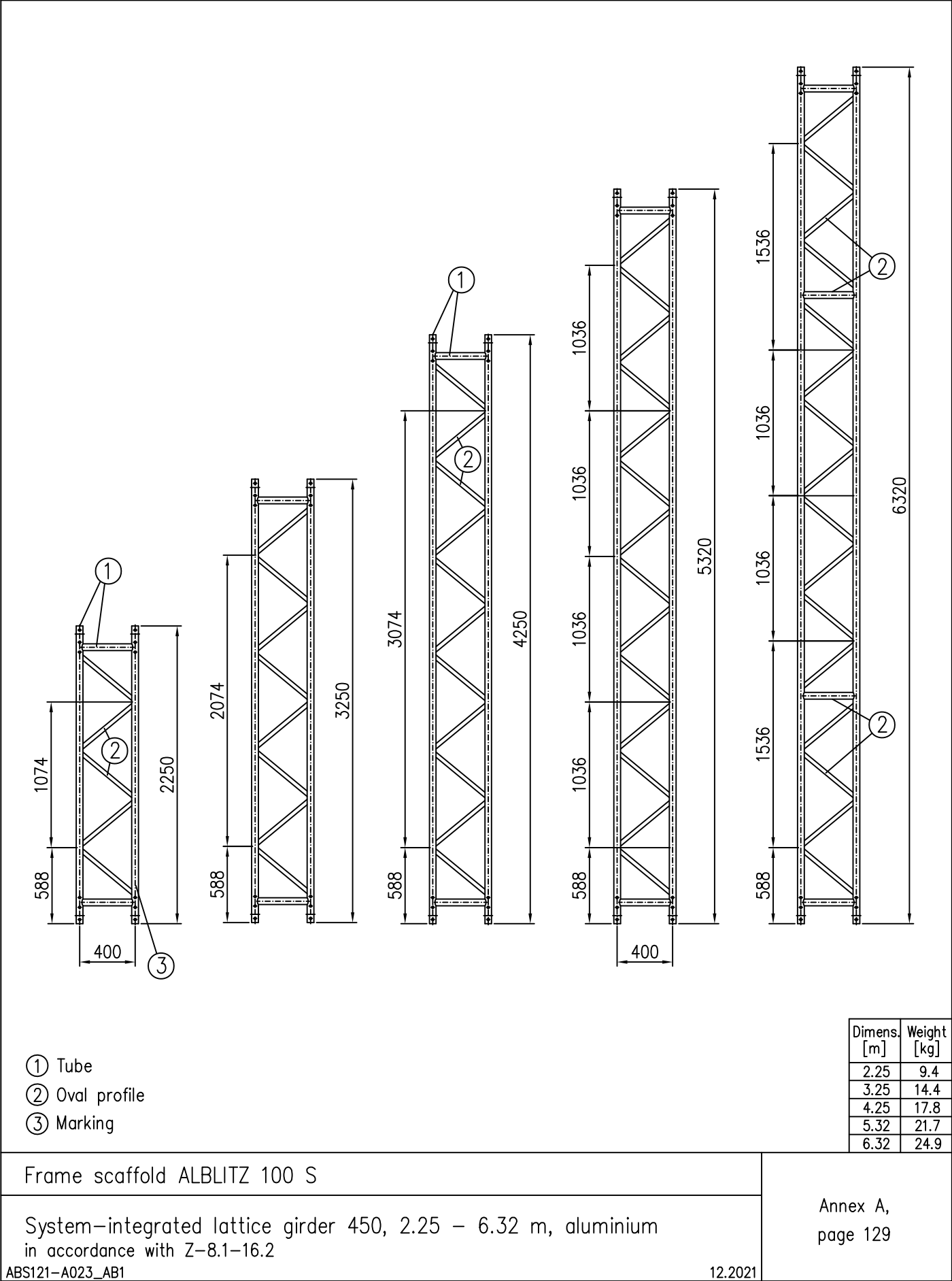


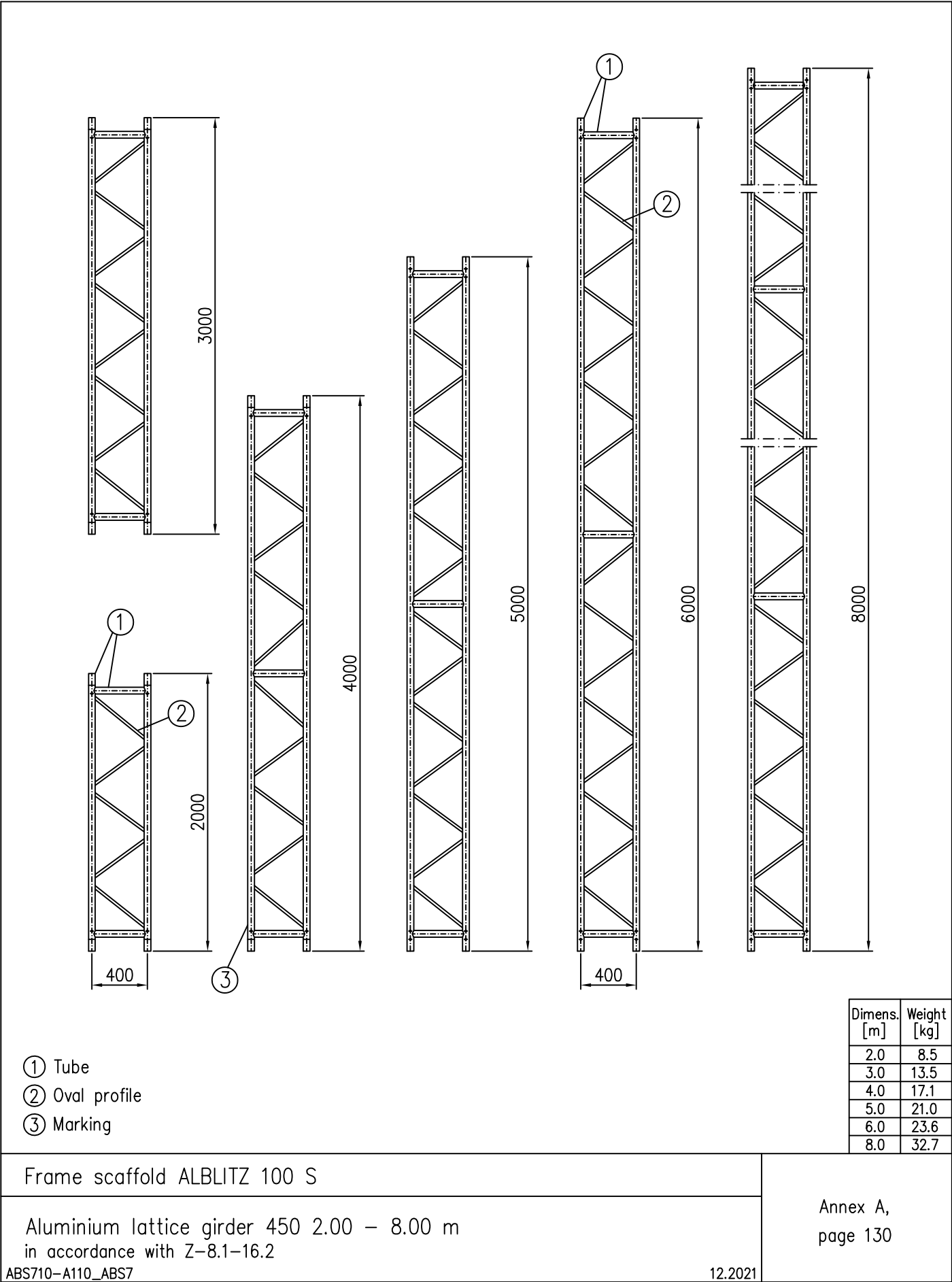


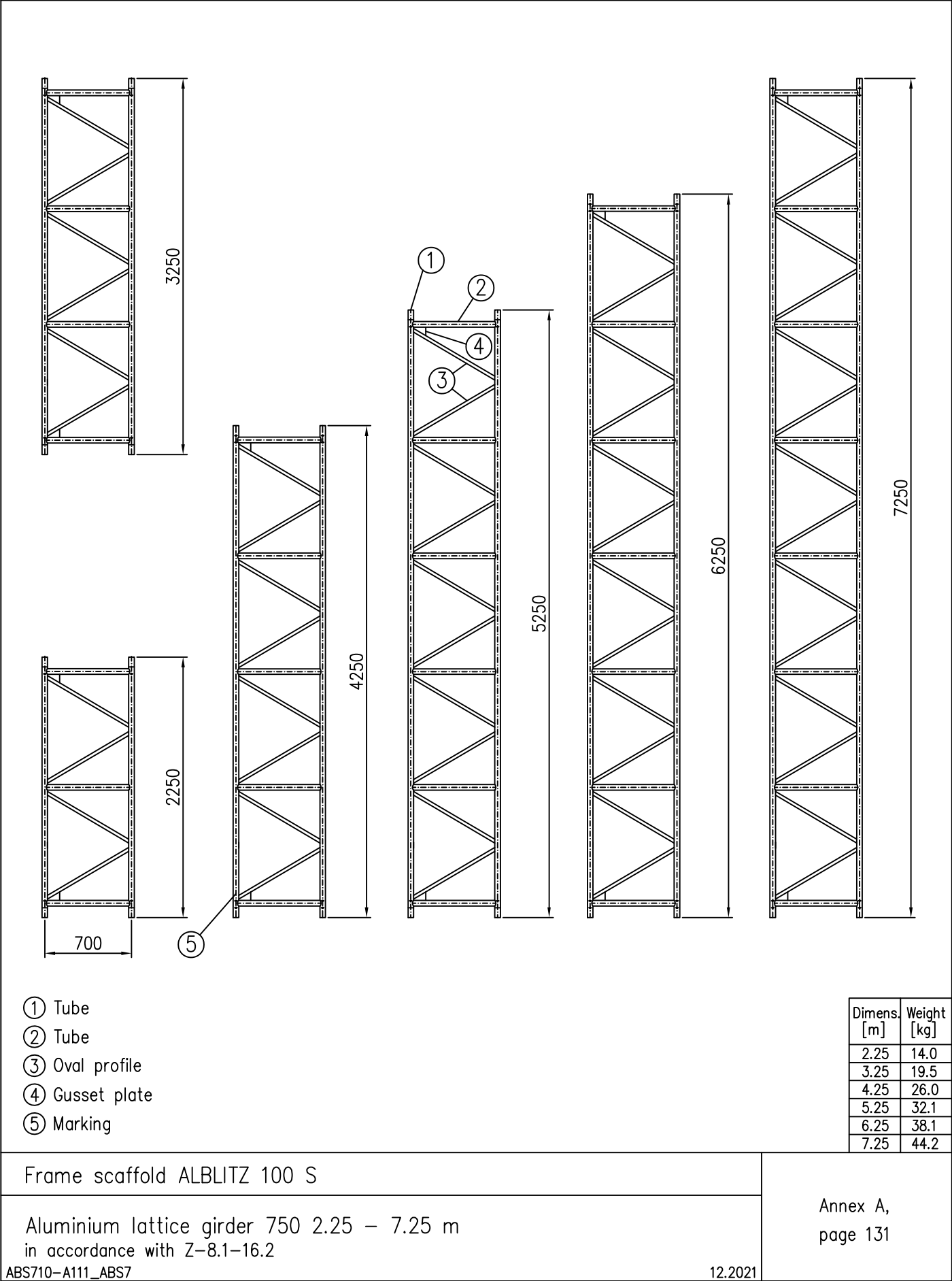
- ① Tube
- ② Rectangular tube
- ③ Marking

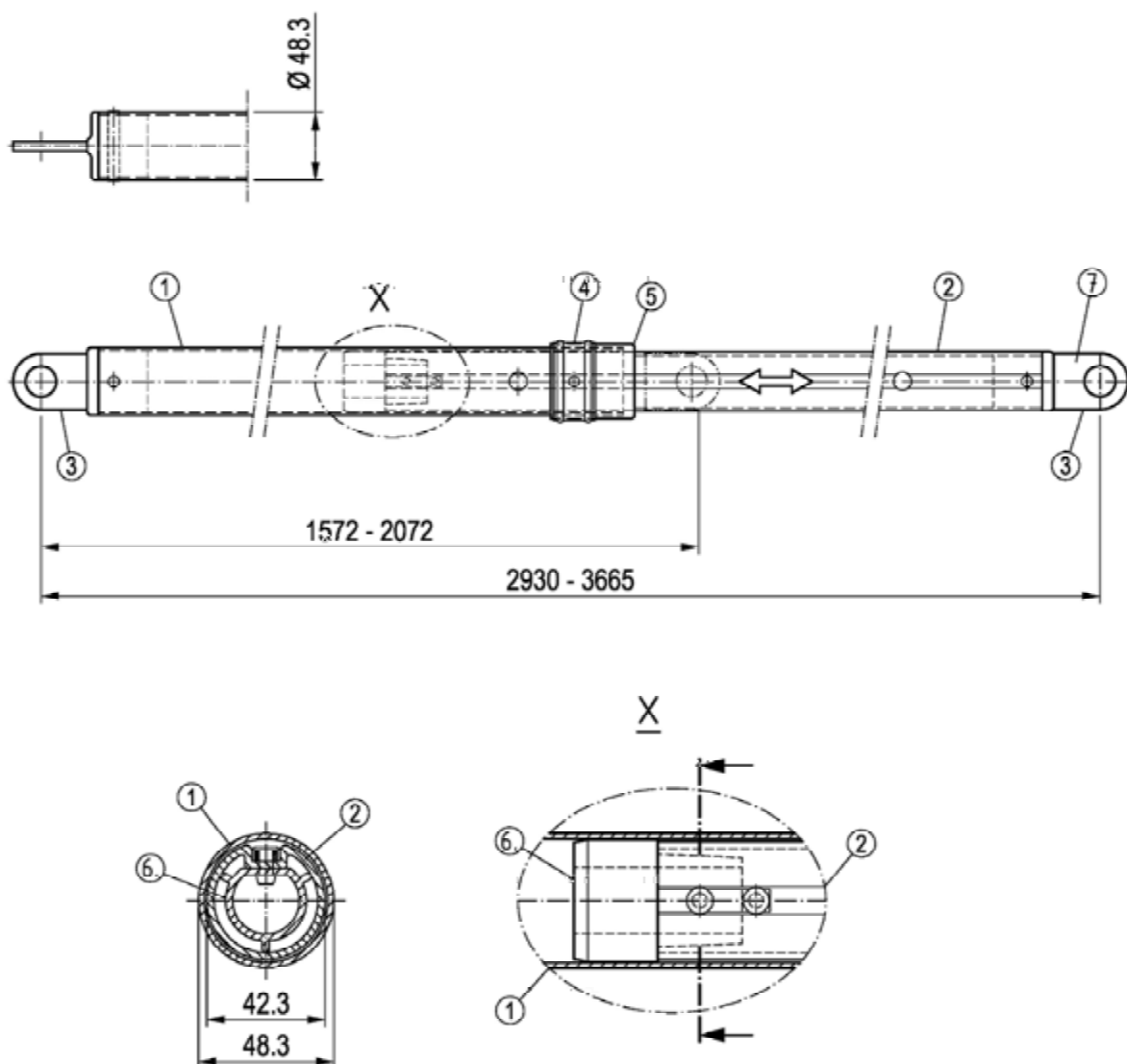
Dimens. [m]	Weight [kg]
2.0	20.7
3.0	29.6
4.0	40.5
5.0	49.3
6.0	58.2

Frame scaffold ABLITZ 100 S	Annex A, page 128
Lattice girder 450 2.00 – 6.00m, steel in accordance with Z-8.1-16.2	
ABS710-A109_ABS712.2021	









- ① Tube
- ② Profile
- ③ Guardrail fixture
- ④ Locking pin
- ⑤ Guiding cap
- ⑥ Internal guide
- ⑦ Marking

Dimens. [m]	Weight [kg]
2.07	2.9
3.07	3.7

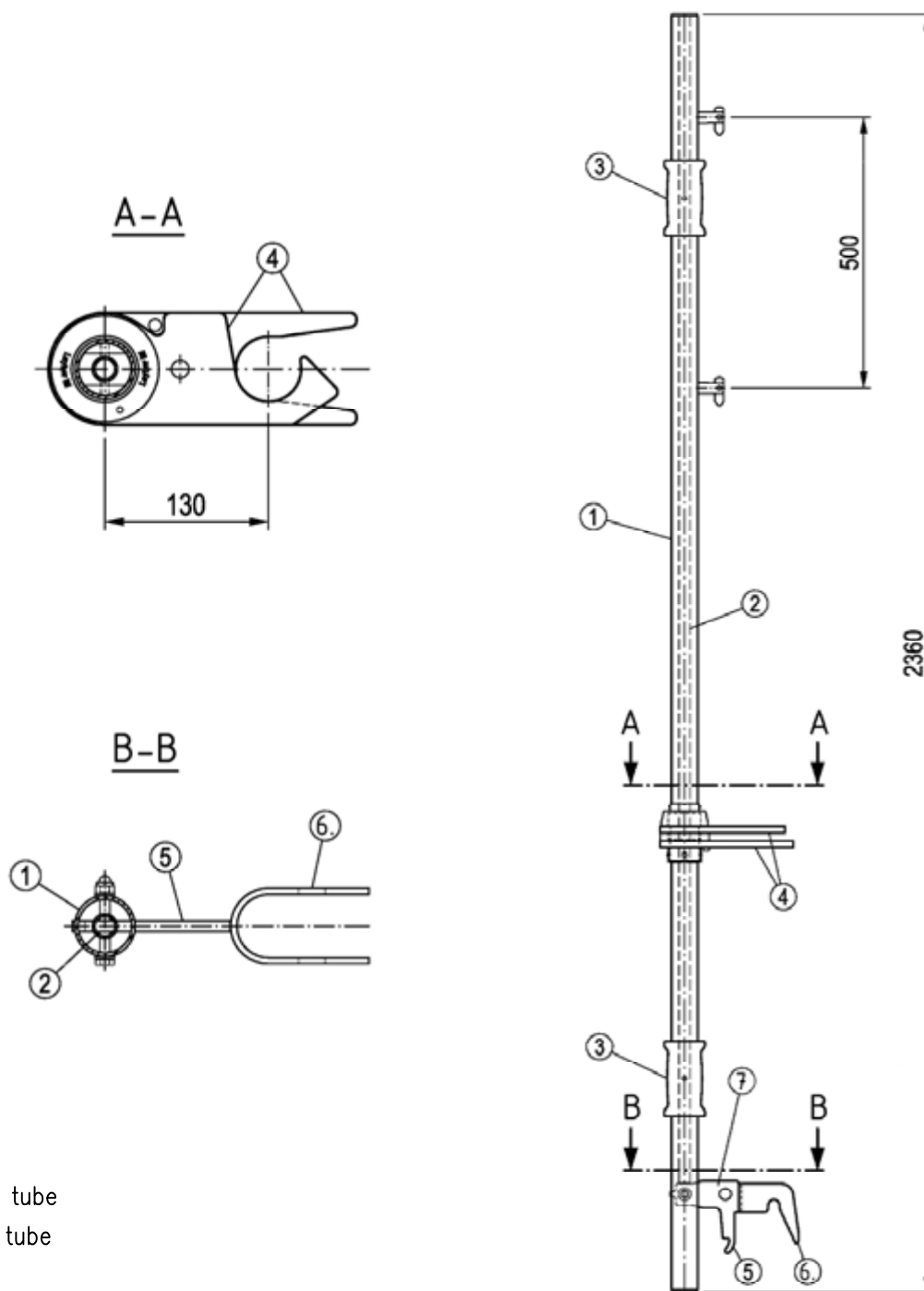
Frame scaffold ALBLITZ 100 S

Aluminium assembly guardrail T19 1.57 / 2.07 m, 2.07 / 3.07 m
in accordance with Z-8.1-16.2

ABS121-A024_AB1

12.2021

Annex A,
page 132



- ① External tube
- ② Internal tube
- ③ Handle
- ④ Hook + fork
- ⑤ Suspension plate
- ⑥ Guardrail fixture
- ⑦ Marking

Weight [kg]
6.0

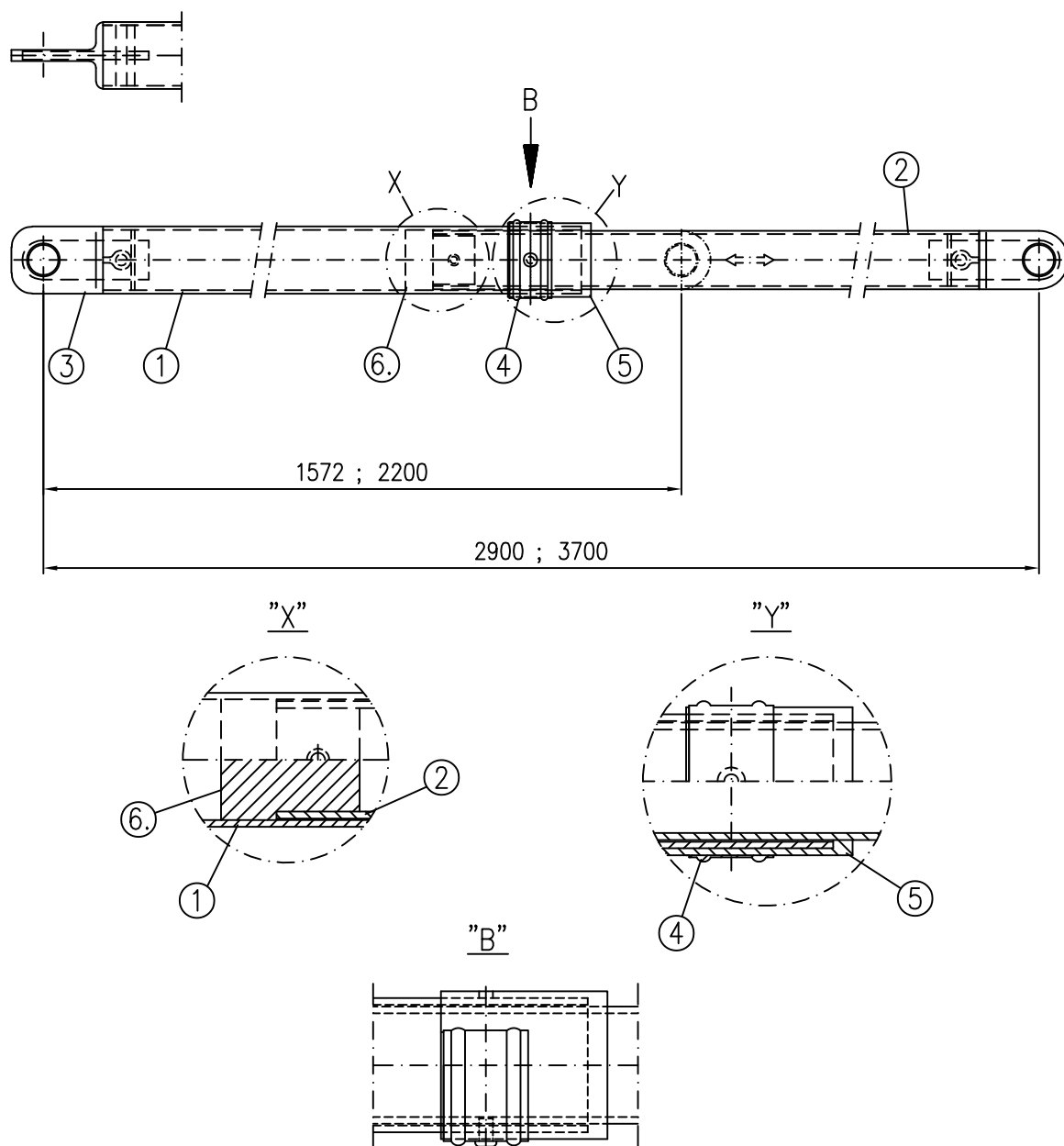
Frame scaffold ALBLITZ 100 S

Assembly post T19
in accordance with Z-8.1-16.2

ABS121-A025_AB1

12.2021

Annex A,
page 133



- ① External tube $\varnothing 48.3$
- ② Internal tube
- ③ Guardrail fixture
- ④ Locking pin
- ⑤ Guiding cap
- ⑥ Internal guide

Only for continued use—
no longer manufactured

Dimens. [m]	Weight [kg]
2.07	3.2
3.07	4.0

Frame scaffold ALBLITZ 100 S

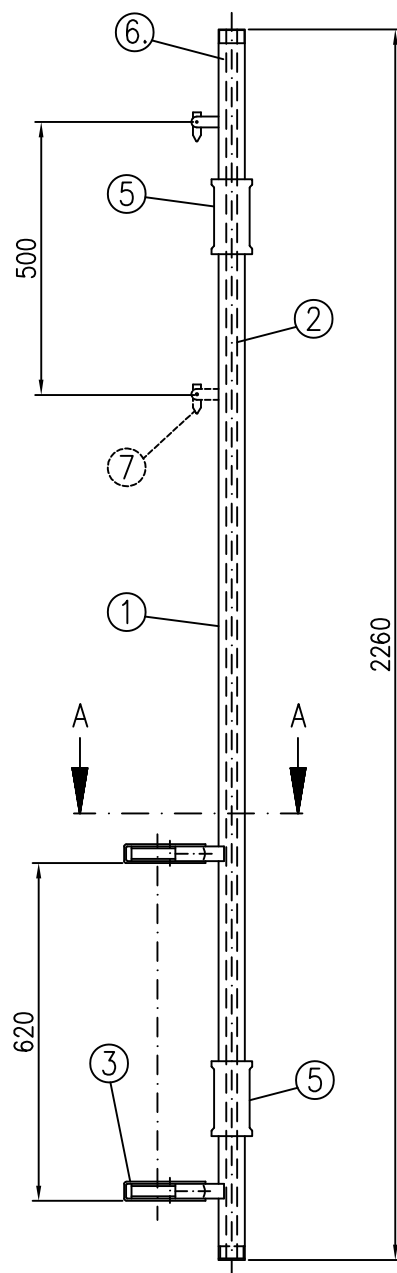
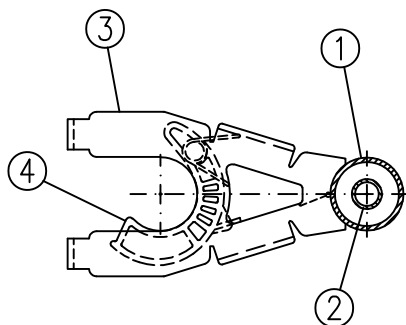
Aluminium assembly guardrail 1.57 / 2.07 m; 2.57 / 3.07 m
in accordance with Z-8.1-16.2

ABS710-A107_AB1

12.2021

Annex A,
page 134

A-A



- ① External tube
- ② Internal tube
- ③ Snap in case
- ④ Claw finger
- ⑤ Handle
- ⑥ Marking
- ⑦ Tilting pin, optional

Weight [kg]
4.2

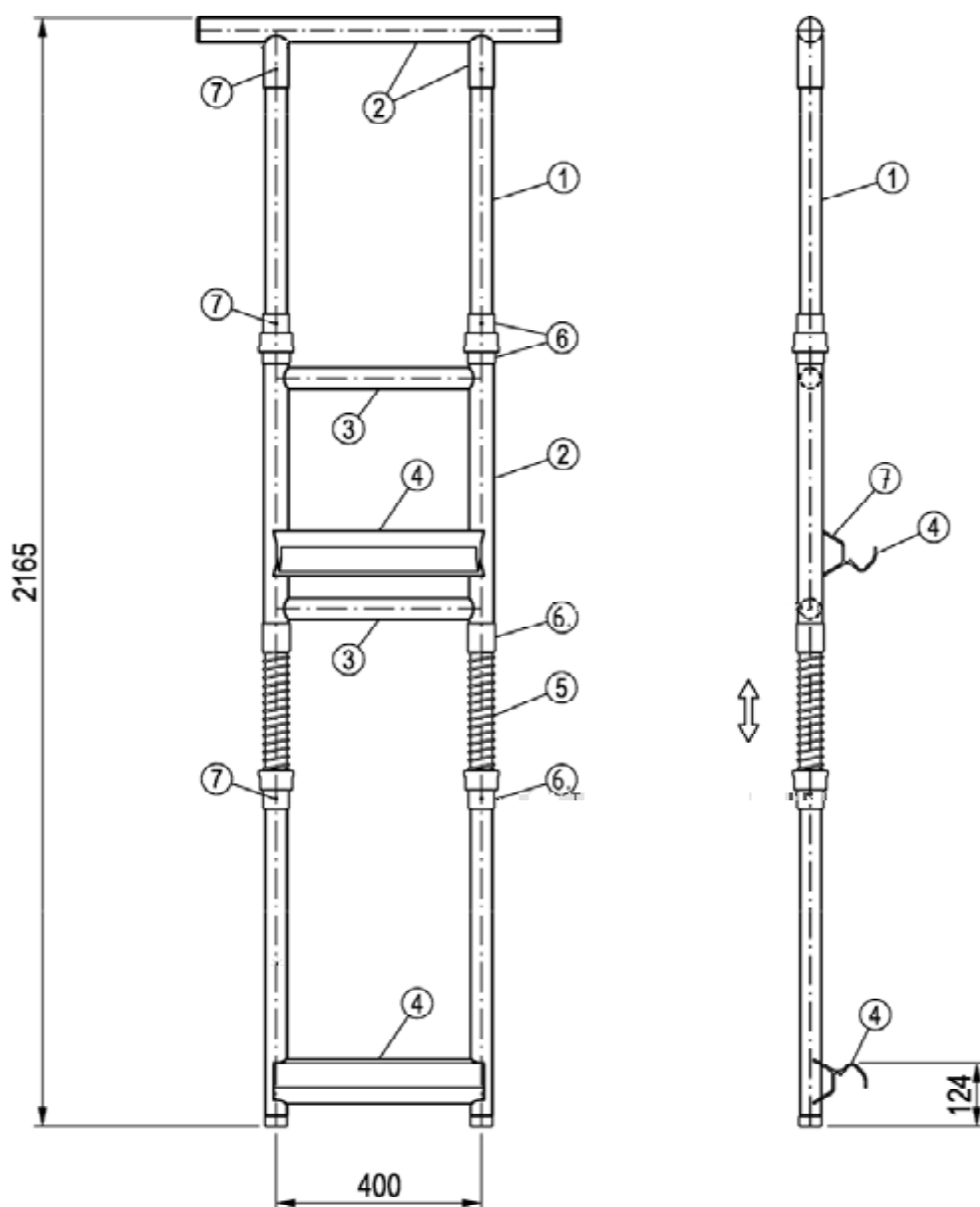
Frame scaffold ALBLITZ 100 S

Assembly post T5
in accordance with Z-8.1-16.2

ABS710-A108_AB1

12.2021

Annex A,
page 135



- ① Groove profile
- ② Tube
- ③ Rung
- ④ U-profile
- ⑤ Compression spring
- ⑥ Stop cap, guiding cap
- ⑦ Blind rivet
- ⑧ Marking

Weight [kg]
9.8

Frame scaffold ALBLITZ 100 S

Aluminium end assembly guardrail
in accordance with Z-8.1-16.2

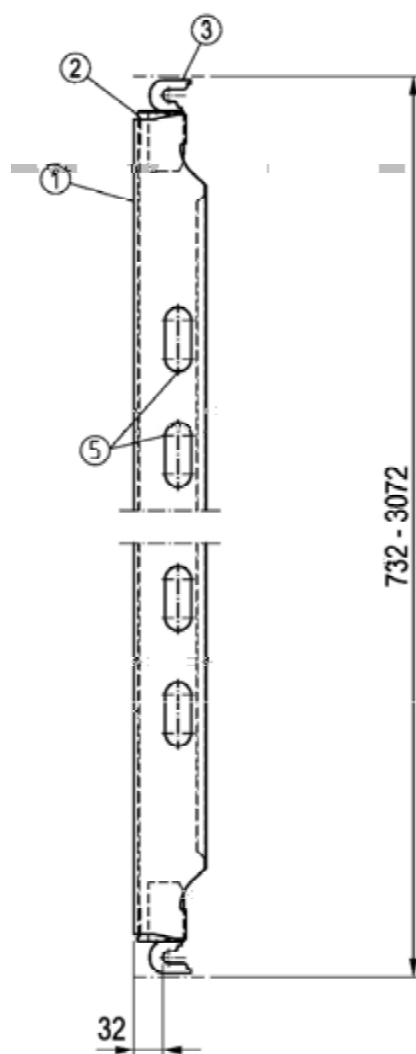
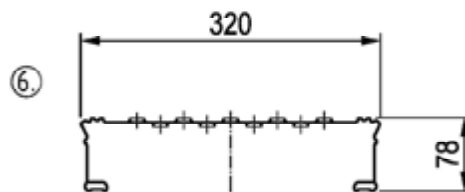
ABS121-A026_AB1

12.2021

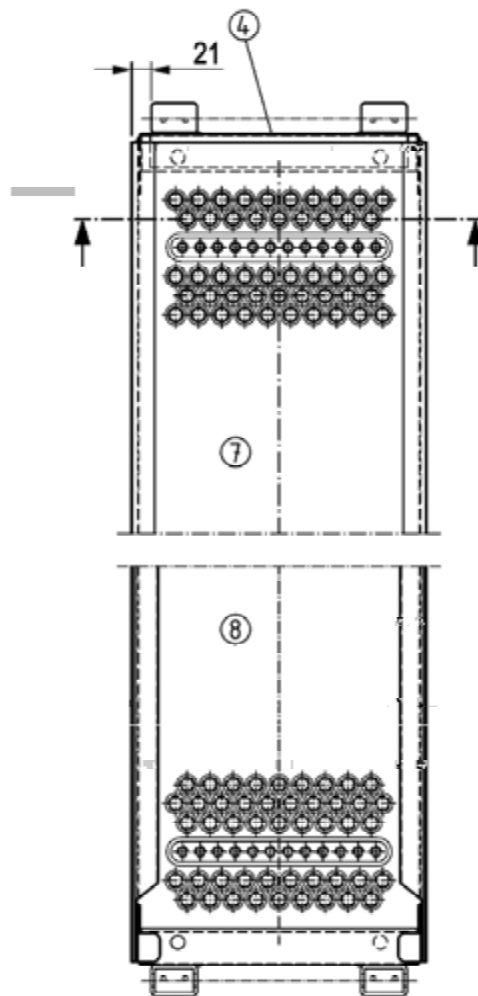
Annex A,
page 136

Bay length	for use up to load class	allowable p *) [kN/m ²]
≤ 2.07 m	6	10.0
2.57 m	5	7.5
3.07 m	4	5.0

*) for the entire deck surface



Bay length	Number of openings
0.73 m	–
1.09 m	2
1.57 m	6
2.07 m	10
2.57 m	14
3.07 m	18



- ① Deck sheet
- ② Head piece
- ③ Claw
- ④ Marking
- ⑤ Openings
- ⑥ Sectional view, head piece not shown
- ⑦ Top view
- ⑧ Bottom view

Dimens. [m]	Weight [kg]
0.73	5.6
1.09	7.7
1.57	10.5
2.07	13.4
2.57	16.4
3.07	19.3

Frame scaffold ALBLITZ 100 S

Lightweight U-deck 0.73 – 3.07 x 0.32 m, steel
design: spot-welded / hand welded
in accordance with Z-8.1-16.2

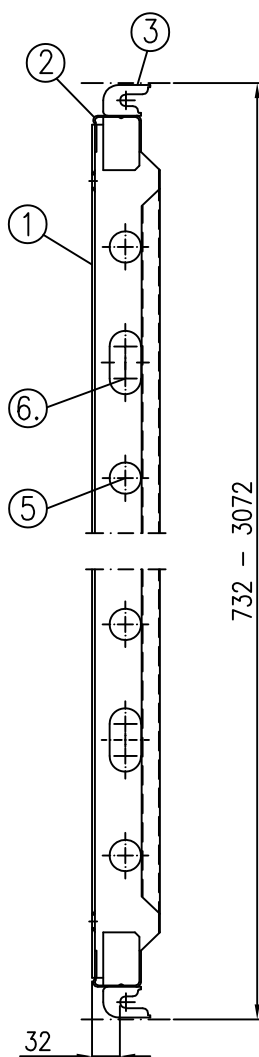
ABS116-A012_AB1

12.2021

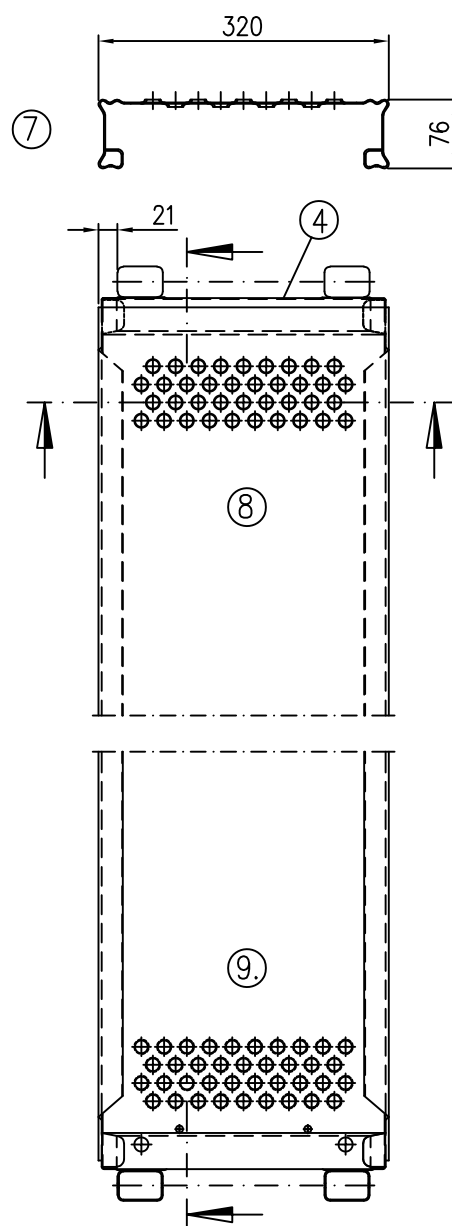
Annex A,
page 137

Bay length	for use up to load class	allowable p *) [kN/m ²]
≤ 2.07 m	6	10.0
2.57 m	5	7.5
3.07 m	4	5.0

*) for the entire deck surface



Bay length	Number of opening 1	Number of opening 2
0.73 m	2	—
1.09 m	2	2
1.57 m	4	2
2.07 m	6	4
2.57 m	8	6
3.07 m	10	8



- ① Deck sheet
- ② Head piece
- ③ Claw
- ④ Marking
- ⑤ Opening 1
- ⑥ Opening 2
- ⑦ Sectional view, head piece not shown
- ⑧ Top view
- ⑨ Bottom view

Dimens. [m]	Weight [kg]
0.73	6.0
1.09	8.3
1.57	11.6
2.07	14.9
2.57	18.2
3.07	21.5

Frame scaffold ALBLITZ 100 S

U-deck T4 0.73 – 3.07 x 0.32 m, steel
design: spot-welded / hand welded
in accordance with Z-8.1-16.2

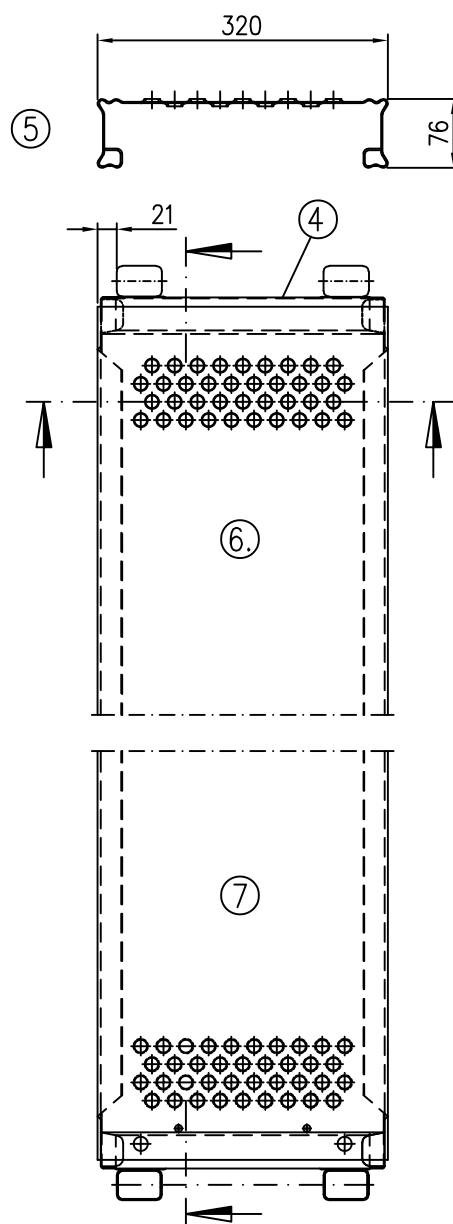
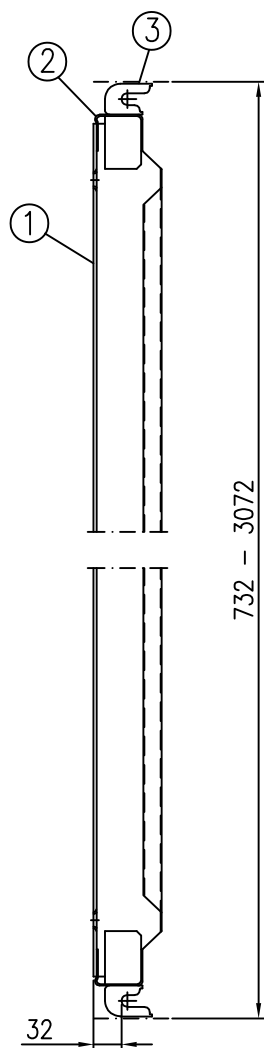
ABS710-A113_AB1

12.2021

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page 138

Bay length	for use up to load class	allowable p *) [kN/m ²]
≤ 2.07 m	6	10.0
2.57 m	5	7.5
3.07 m	4	5.0

*) for the entire deck surface



- ① Deck sheet
- ② Head piece
- ③ Claw
- ④ Marking
- ⑤ Sectional view, head piece not shown
- ⑥ Top view
- ⑦ Bottom view

Dimens. [m]	Weight [kg]
0.73	6.1
1.09	8.6
1.57	11.9
2.07	15.4
2.57	18.7
3.07	22.2

Frame scaffold ALBLITZ 100 S

U-deck 0.73 - 3.07 x 0.32 m, steel
design: spot-welded / hand welded
in accordance with Z-8.1-16.2

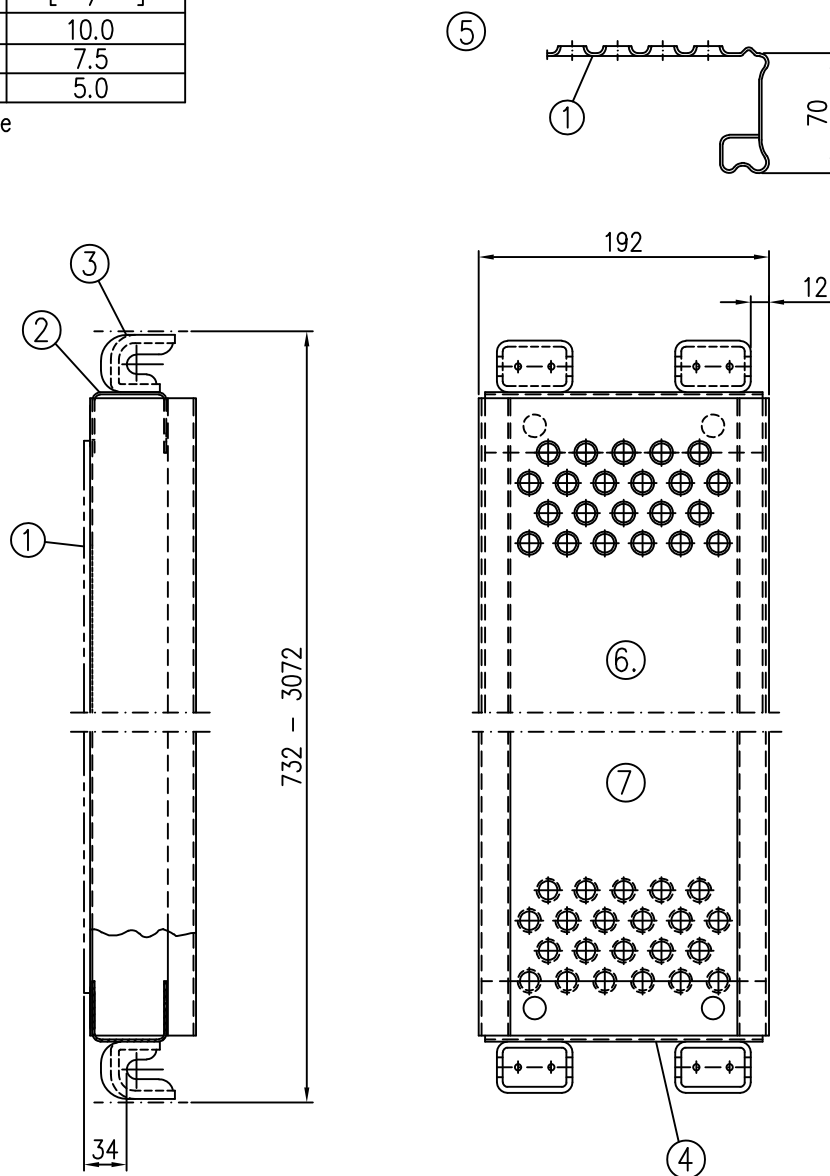
ABS710-A116_AB1

12.2021

Annex A,
page 139

Bay length	for use up to load class	allowable p *) [kN/m ²]
≤ 2.07 m	6	10.0
2.57 m	5	7.5
3.07 m	4	5.0

*) for the entire deck surface



- ① Deck sheet Steel
- ② Head piece Steel
- ③ Claw Steel
- ④ Marking
- ⑤ Drawing of cross section (suspension not shown)
- ⑥ Top view
- ⑦ Bottom view

Dimens. [m]	Weight [kg]
0.73	5.1
1.09	6.4
1.57	8.5
2.07	10.2
2.57	13.2
3.07	15.3

Frame scaffold ALBLITZ 100 S

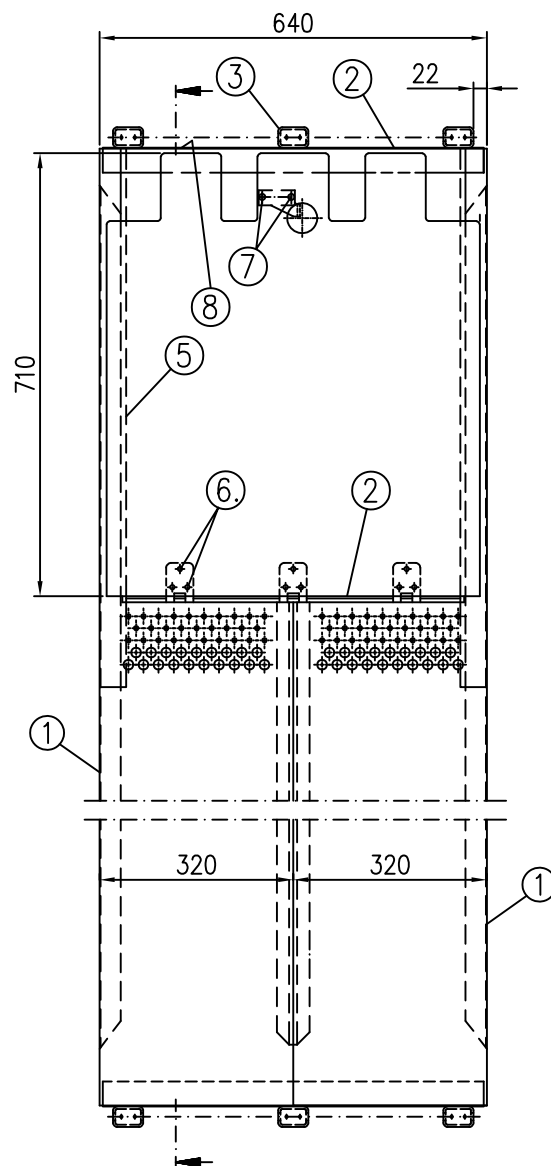
U-deck 0.73 – 3.07 x 0.19 m, steel
in accordance with Z-8.1-16.2

ABS710-A117_AB1

12.2021

Annex A,
page 140

*) for the entire deck surface
**) acts on 60% of the deck surface



- | |
|----------------|
| Weight
[kg] |
| 28.9 |

U-trapdoor deck 2.07 x 0.64 m, steel
in accordance with Z-8.1-16.2

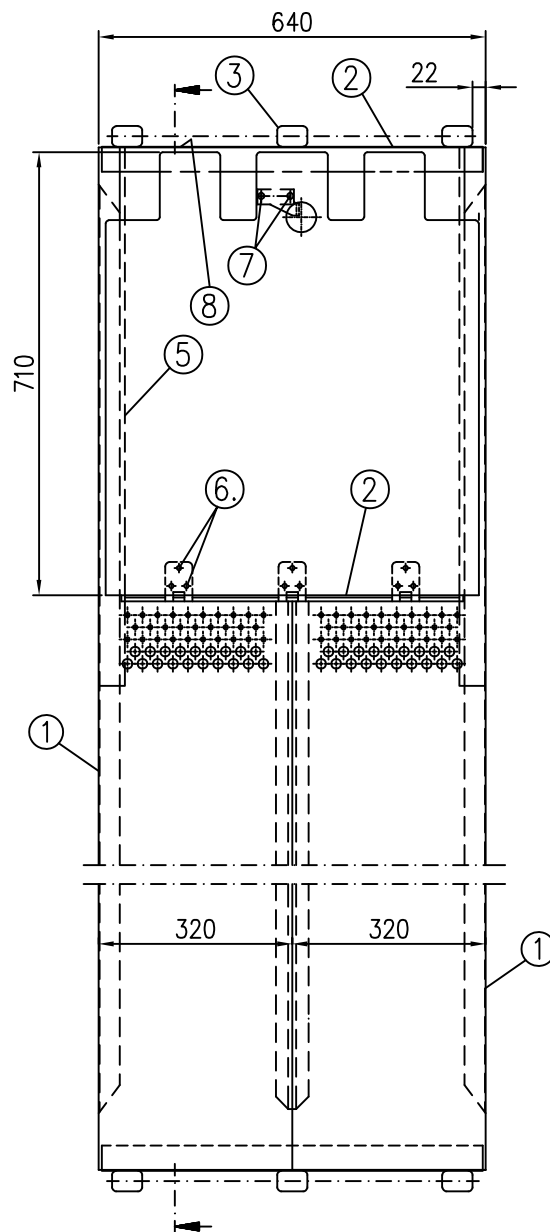
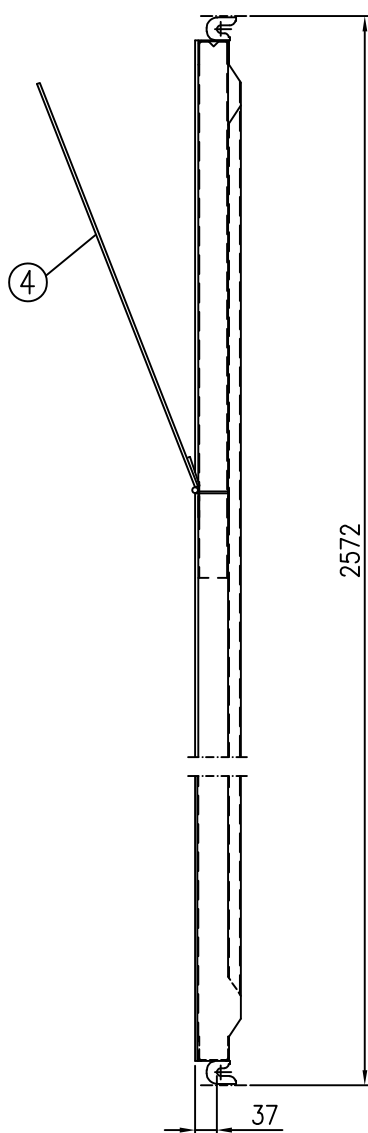
12.2021

Annex A,
page 141

Bay length	for use up to load class	allowable p *) [kN/m ²]
2.57 m	4	3.0 *) 5.0 **)

*) for the entire deck surface

**) acts on 60% of the deck surface



- ① Deck sheet
- ② Head piece
- ③ Claw
- ④ Trapdoor
- ⑤ Reinforcing U
- ⑥ Blind rivet
- ⑦ Blind rivet
- ⑧ Marking

Weight [kg]
38.0

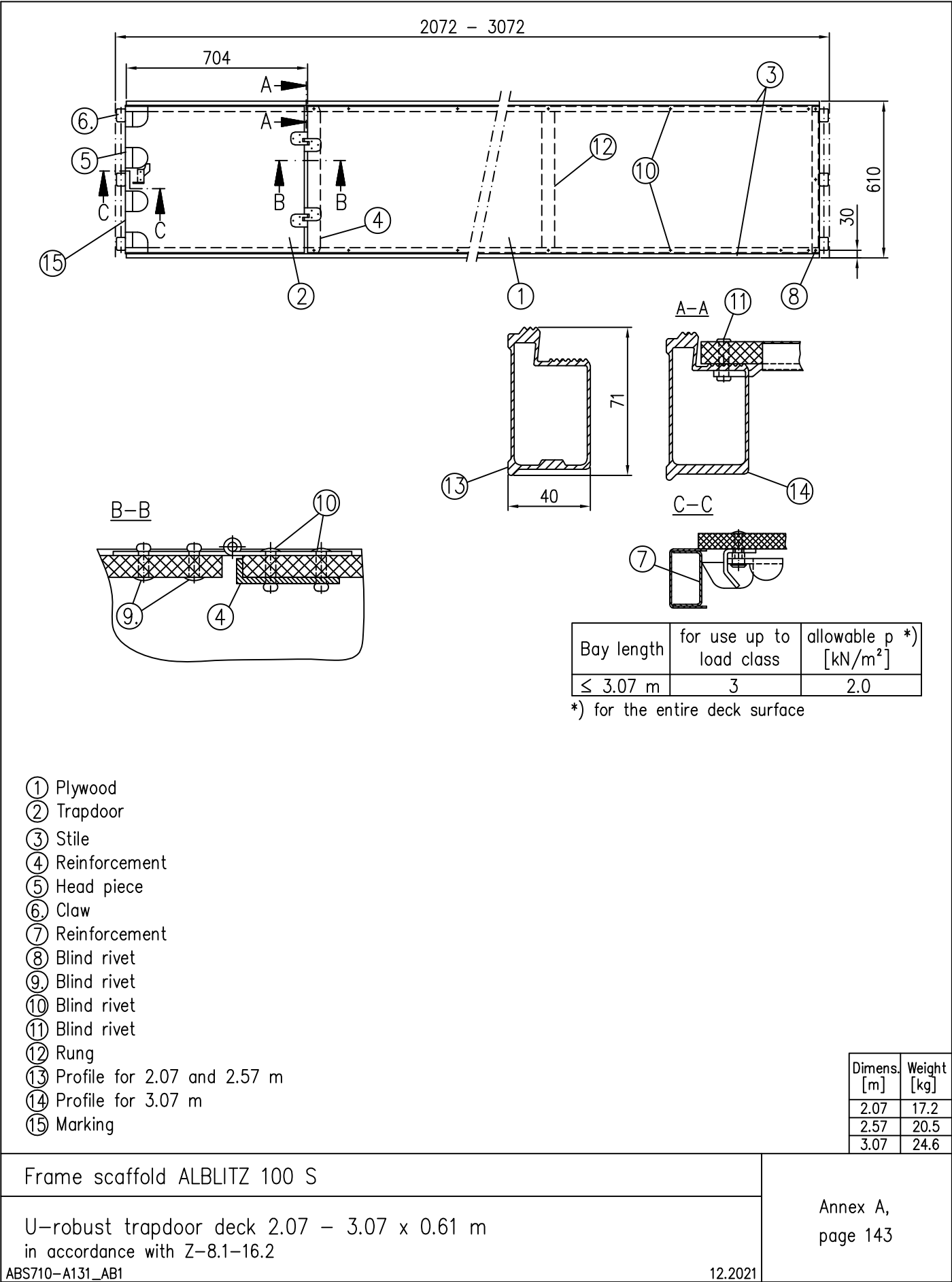
Frame scaffold ALBLITZ 100 S

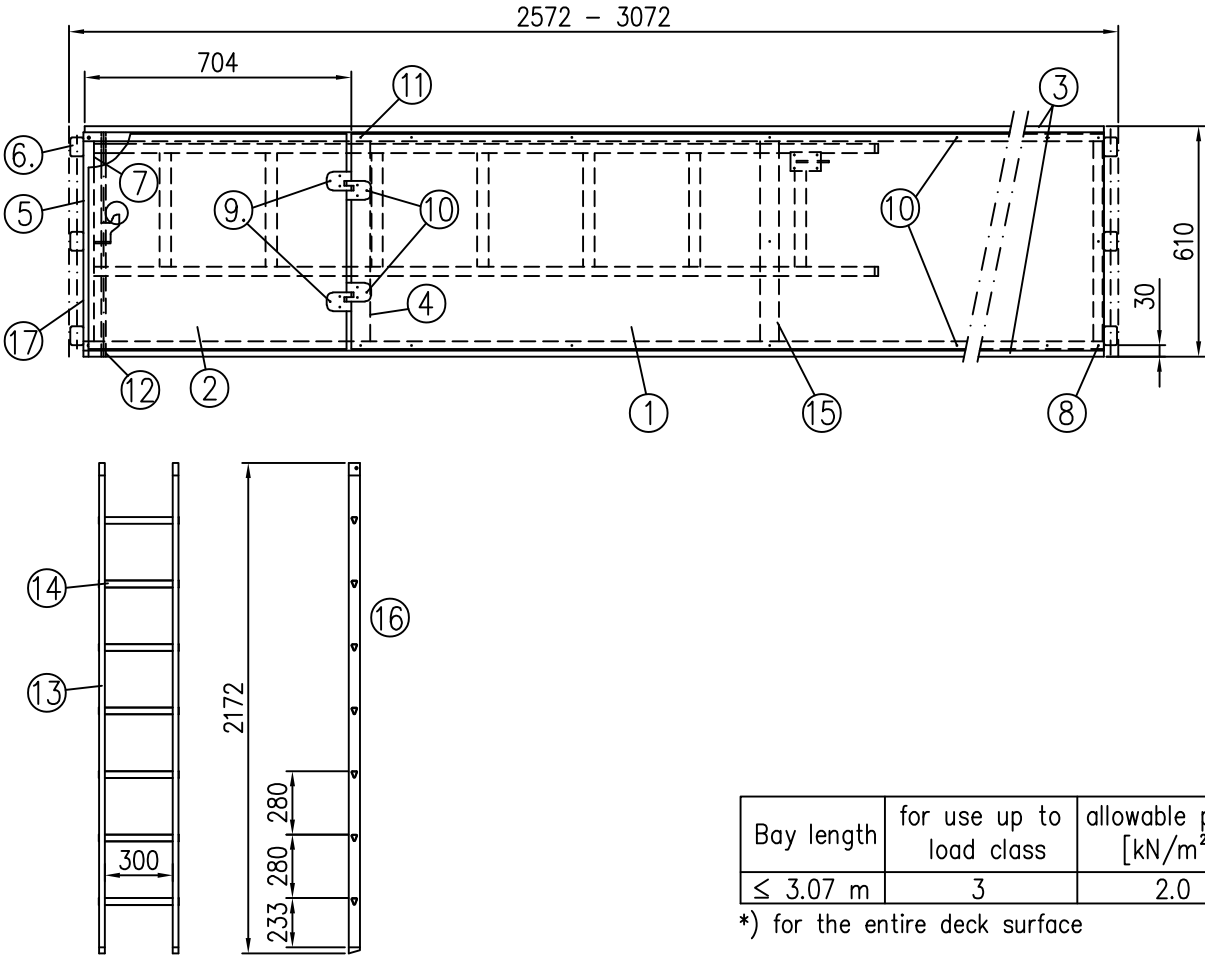
U-trapdoor deck 2.57 x 0.64 m, steel
in accordance with Z-8.1-16.2

ABS710-A119_AB1

12.2021

Annex A,
page 142





- ① Plywood
- ② Trapdoor
- ③ Stile
- ④ Reinforcement
- ⑤ Head piece
- ⑥ Claw
- ⑦ Reinforcement
- ⑧ Blind rivet
- ⑨ Blind rivet
- ⑩ Blind rivet
- ⑪ Blind rivet
- ⑫ Axis
- ⑬ Ladder stile
- ⑭ Ladder rung
- ⑮ Brace
- ⑯ Ladder according to EN 131
- ⑰ Marking

Dimens. [m]	Weight [kg]
2.57	24.0
3.07	27.4

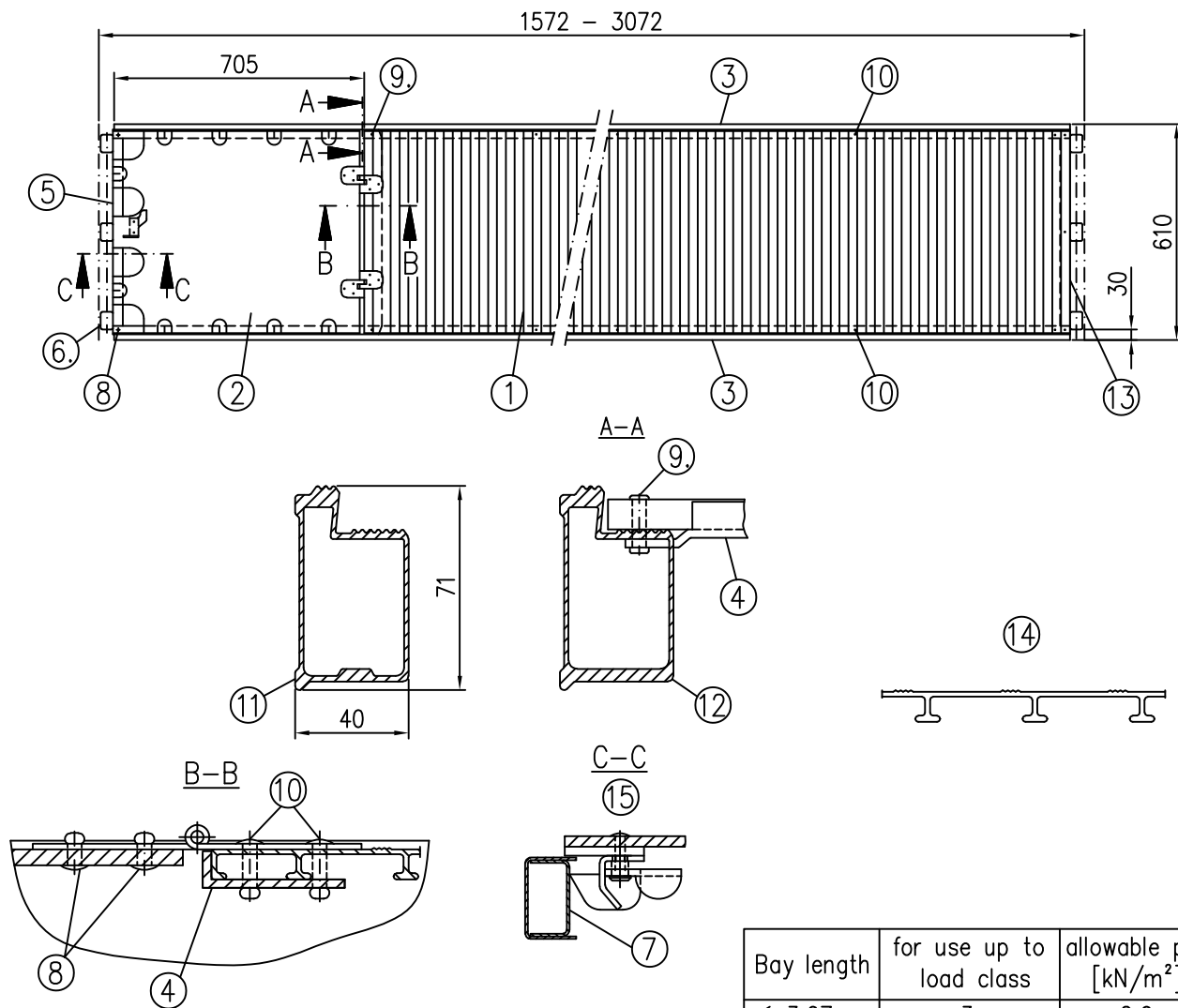
Frame scaffold ALBLITZ 100 S

U-robust trapdoor deck with ladder 2.57 – 3.07 x 0.61 m
in accordance with Z-8.1-16.2

ABS710-A132_AB1

12.2021

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page 144



Bay length	for use up to load class	allowable p *) [kN/m ²]
≤ 3.07 m	3	2.0

*) for the entire deck surface

- ① Cross section profile
- ② Trapdoor
- ③ Stile
- ④ Reinforcement
- ⑤ Head piece
- ⑥ Claw
- ⑦ Reinforcement
- ⑧ Blind rivet
- ⑨ Blind rivet
- ⑩ Blind rivet
- ⑪ Profile for 1.57 to 2.57 m
- ⑫ Profile for 3.07 m
- ⑬ Marking
- ⑭ Cross section (cross section profile)
- ⑮ (claw not shown in drawing)

Dimens. [m]	Weight [kg]
1.57	15.1
2.07	17.0
2.57	20.0
3.07	24.5

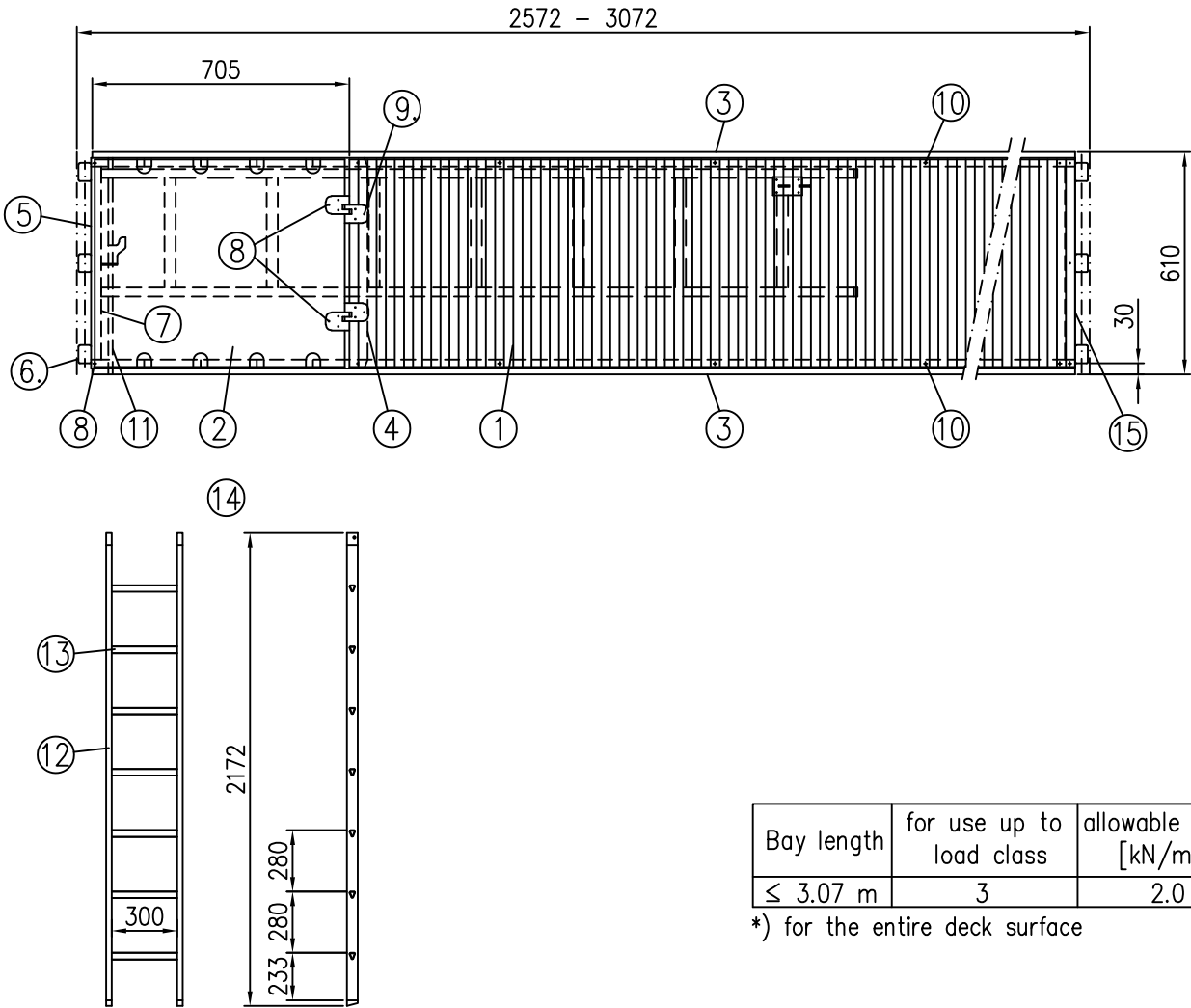
Frame scaffold ALBLITZ 100 S

Aluminium U-trapdoor deck 1.57 – 3.07 x 0.61 m
in accordance with Z-8.1-16.2

ABS710-A137_AB1

12.2021

Annex A,
page 145



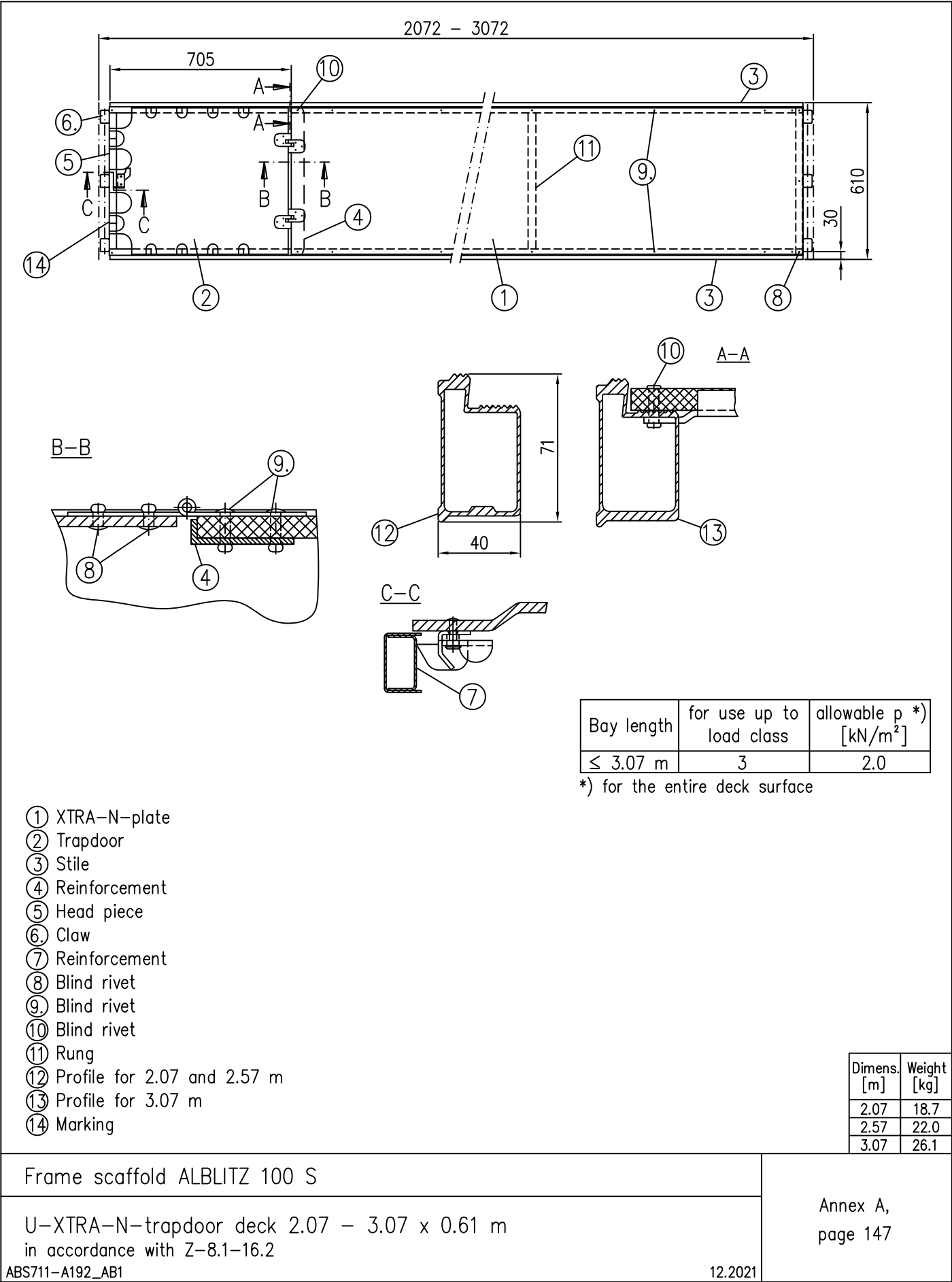
Bay length	for use up to load class	allowable p *) [kN/m²]
≤ 3.07 m	3	2.0

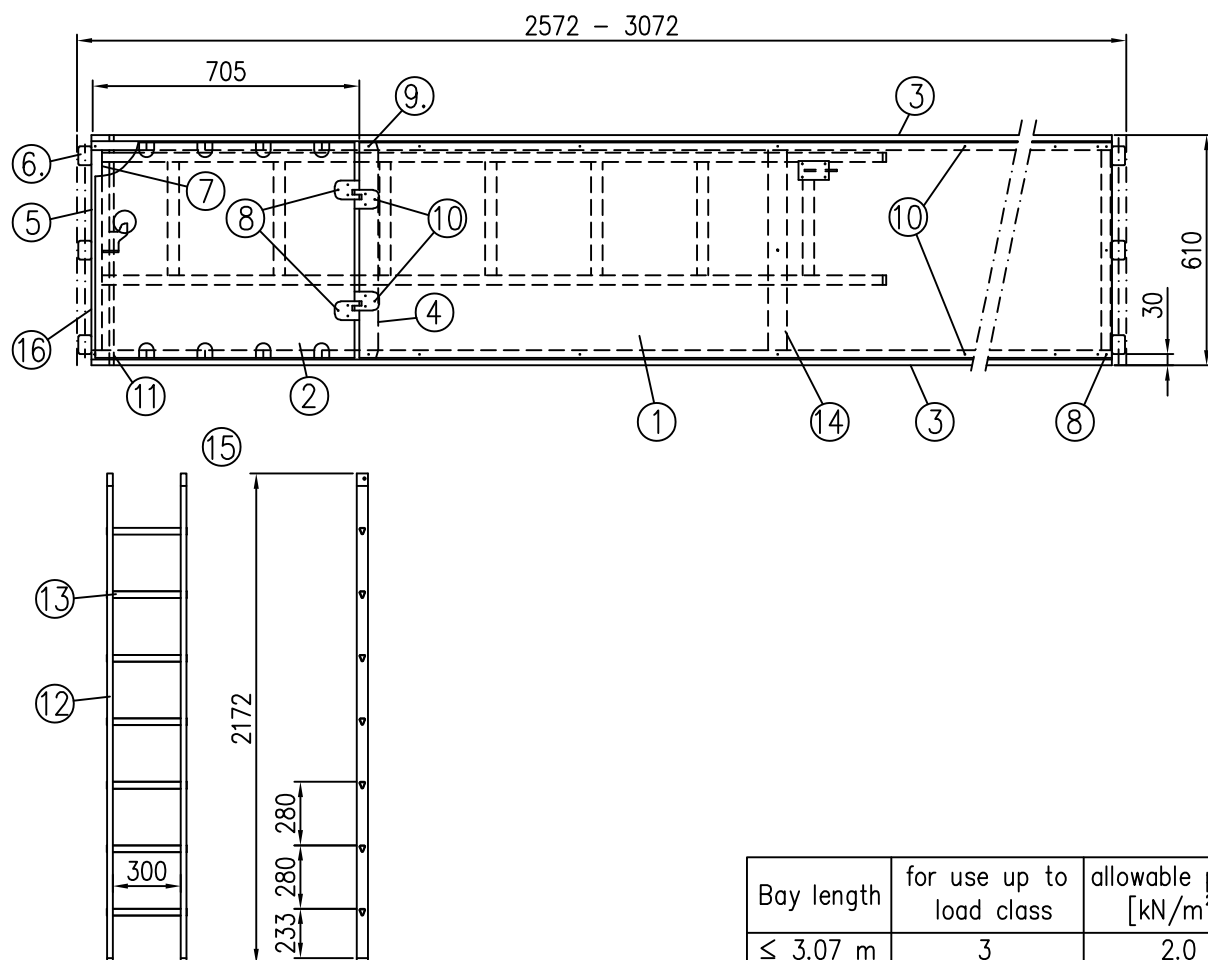
*) for the entire deck surface

- ① Cross section profile
- ② Trapdoor
- ③ Stile
- ④ Reinforcement
- ⑤ Head piece
- ⑥ Claw
- ⑦ Reinforcement
- ⑧ Blind rivet
- ⑨ Blind rivet
- ⑩ Blind rivet
- ⑪ Axis
- ⑫ Ladder stile
- ⑬ Ladder rung
- ⑭ Ladder according to EN 131
- ⑮ Marking

Dimens. [m]	Weight [kg]
2.57	24.0
3.07	28.0

Frame scaffold ALBLITZ 100 S	Annex A, page 146
Aluminium U-trapdoor deck with ladder, 2.57 – 3.07 x 0.61 m in accordance with Z-8.1-16.2	
ABS710-A138_AB1	





*) for the entire deck surface

- ① XTRA-N-plate
- ② Trapdoor
- ③ Stile
- ④ Reinforcement
- ⑤ Head piece
- ⑥ Claw
- ⑦ Reinforcement
- ⑧ Blind rivet
- ⑨ Blind rivet
- ⑩ Blind rivet
- ⑪ Axis
- ⑫ Ladder stile
- ⑬ Ladder rung
- ⑭ Brace
- ⑮ Ladder according to EN 131
- ⑯ Marking

Dimens. [m]	Weight [kg]
2.57	25.4
3.07	29.5

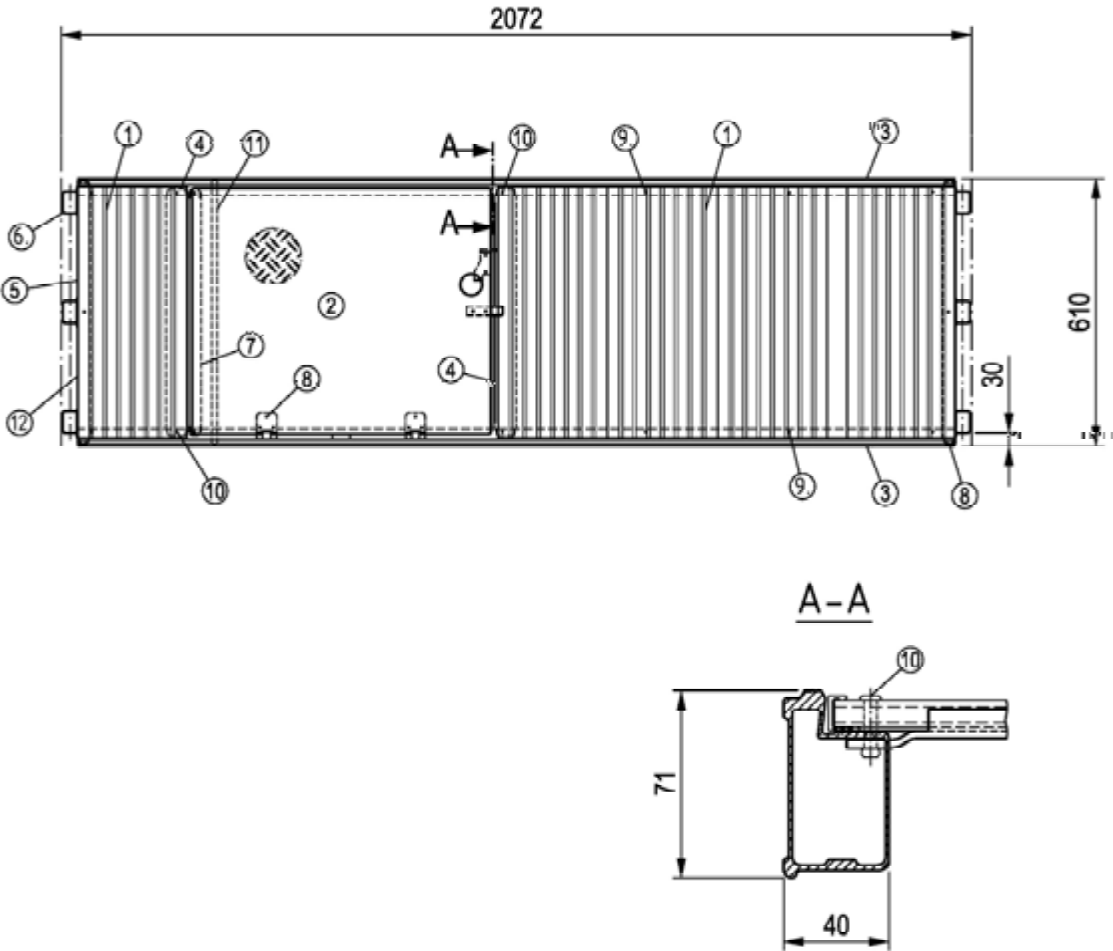
Frame scaffold ALBLITZ 100 S

U-XTRA-N-trapdoor deck with ladder, 2.57 – 3.07 x 0.61 m
in accordance with Z-8.1-16.2

ABS711-A191_AB1

12.2021

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page 148

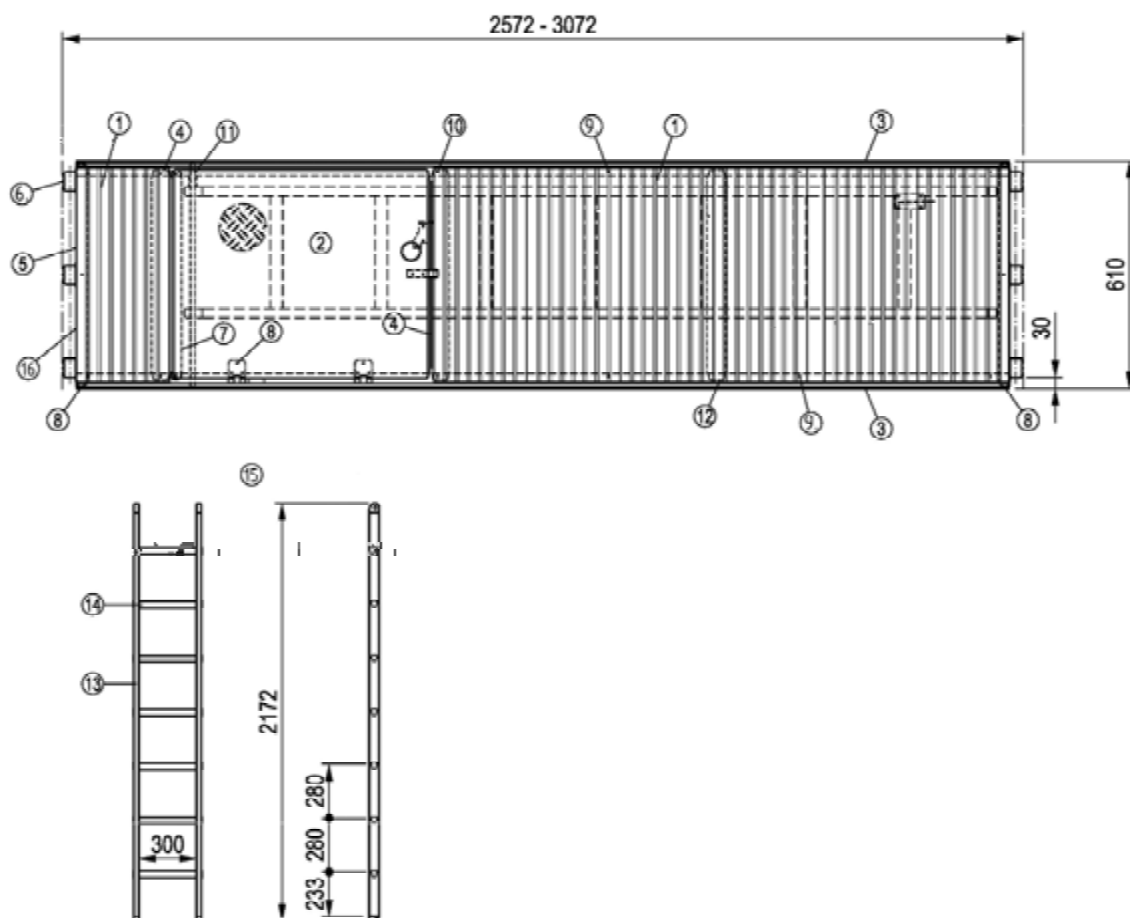


- ① Cross section profile
- ② Trapdoor
- ③ Stile
- ④ Reinforcement
- ⑤ Head piece
- ⑥ Claw
- ⑦ Rung
- ⑧ Blind rivet
- ⑨ Blind rivet
- ⑩ Blind rivet
- ⑪ Axis
- ⑫ Marking

Bay length	for use up to load class	allowable p *) [kN/m²]
≤ 3.07 m	3	2.0

*) for the entire deck surface

(11) Axis		Weight [kg]
(12) Marking		
Frame scaffold ALBLITZ 100 S		Annex A, page 149
Aluminium U–trapdoor deck 2.07 x 0.61 m, trapdoor offset in accordance with Z–8.1–16.2		
ABS121–A028_AB1	12.2021	



- ① Cross section profile
- ② Trapdoor
- ③ Stile
- ④ Reinforcement
- ⑤ Head piece
- ⑥ Claw
- ⑦ Rung
- ⑧ Blind rivet
- ⑨ Blind rivet
- ⑩ Blind rivet
- ⑪ Axis
- ⑫ Brace
- ⑬ Ladder stile
- ⑭ Ladder rung
- ⑮ Ladder according to EN 131
- ⑯ Marking

Bay length	for use up to load class	allowable p *) [kN/m ²]
≤ 3.07 m	3	2.0

*) for the entire deck surface

Dimens. [m]	Weight [kg]
2.57	21.5
3.07	21.5

Frame scaffold ALBLITZ 100 S

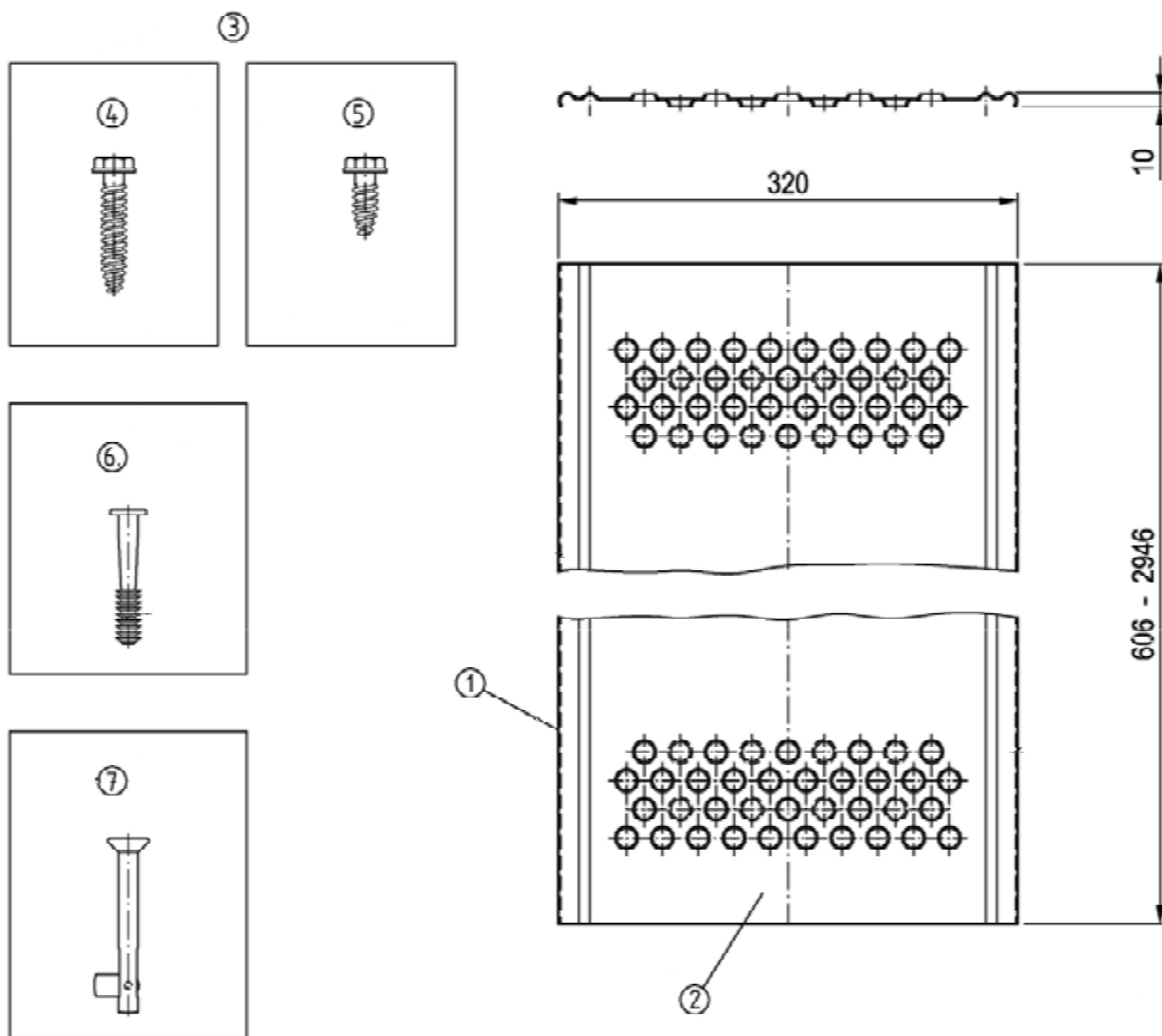
Aluminium U-trapdoor deck 2.57 – 3.07 x 0.61 m with ladder, trapdoor offset
in accordance with Z-8.1-16.2

ABS121-A029_AB1

12.2021

Annex A,
page 150

for use up to load class	allowable p [kN/m ²]	Span
6	10.0	≤ 24 cm



- ① Deck sheet
- ② Marking
- ③ Options to secure the position
- ④ Locking screw, long
- ⑤ Locking screw, short
- ⑥ Locking gudgeon
- ⑦ Steel pin (self-locking)

WS19/22	(Strength 4.6 ISO 898-1)	Screw head, red
WS19/22	(Strength 4.6 ISO 898-1)	Screw head, blue
ø11	(Plastic)	
ø11		

Dimens. [m]	Weight [kg]
0.73	2.6
1.09	3.8
1.57	4.2
2.07	6.3
2.57	8.5
3.07	12.0

Frame scaffold ALBLITZ 100 S

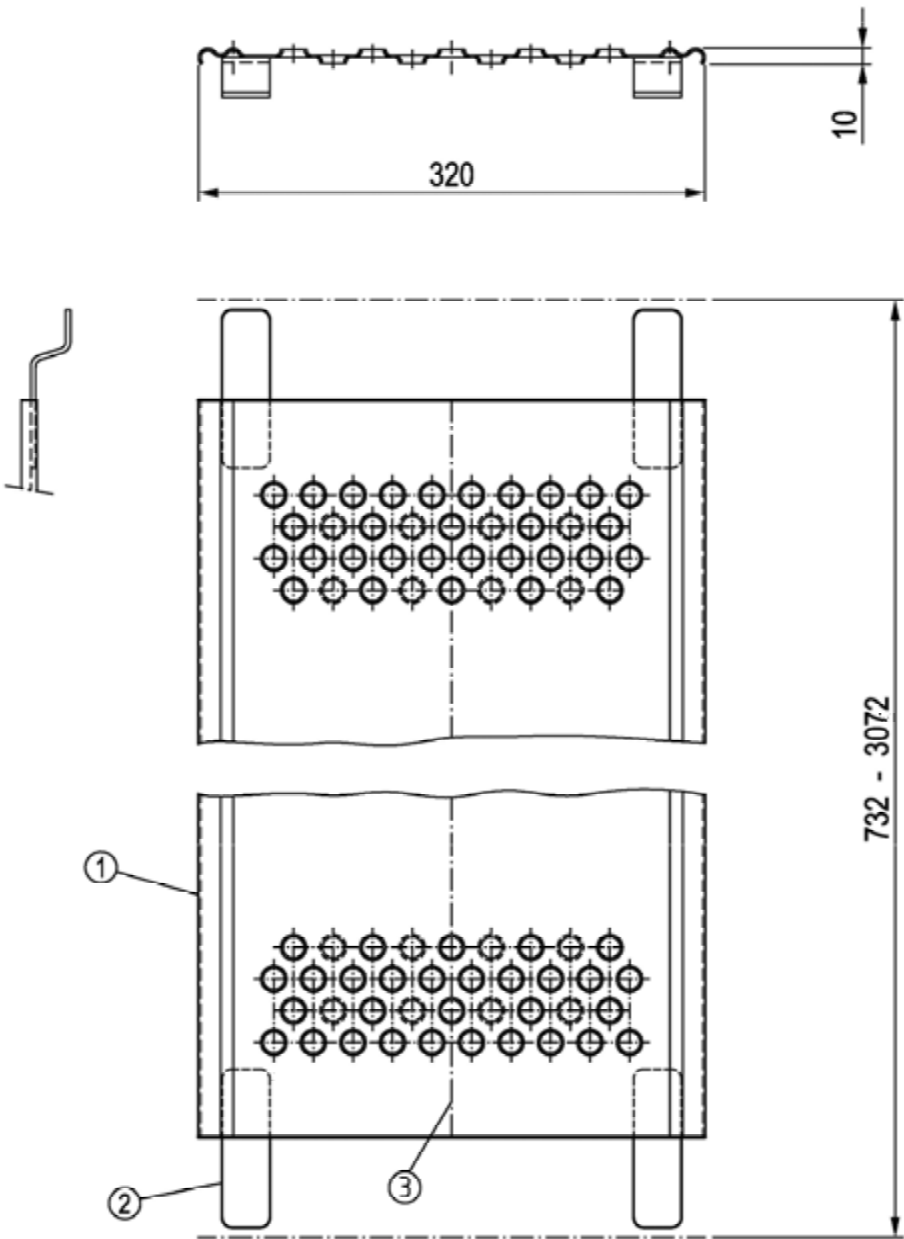
Gap cover 0.73 – 3.07 x 0.32 m, steel
in accordance with Z-8.22-939

ABS121-A030_AB1

12.2021

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page 151

for use up to load class	allowable p [kN/m ²]	Span
6	10.0	≤ 24 cm



- ① Deck sheet
② Retainer plate
③ Marking

Dimens. [m]	Weight [kg]
1.57	4.5
2.07	6.6
2.57	8.8
3.07	12.3

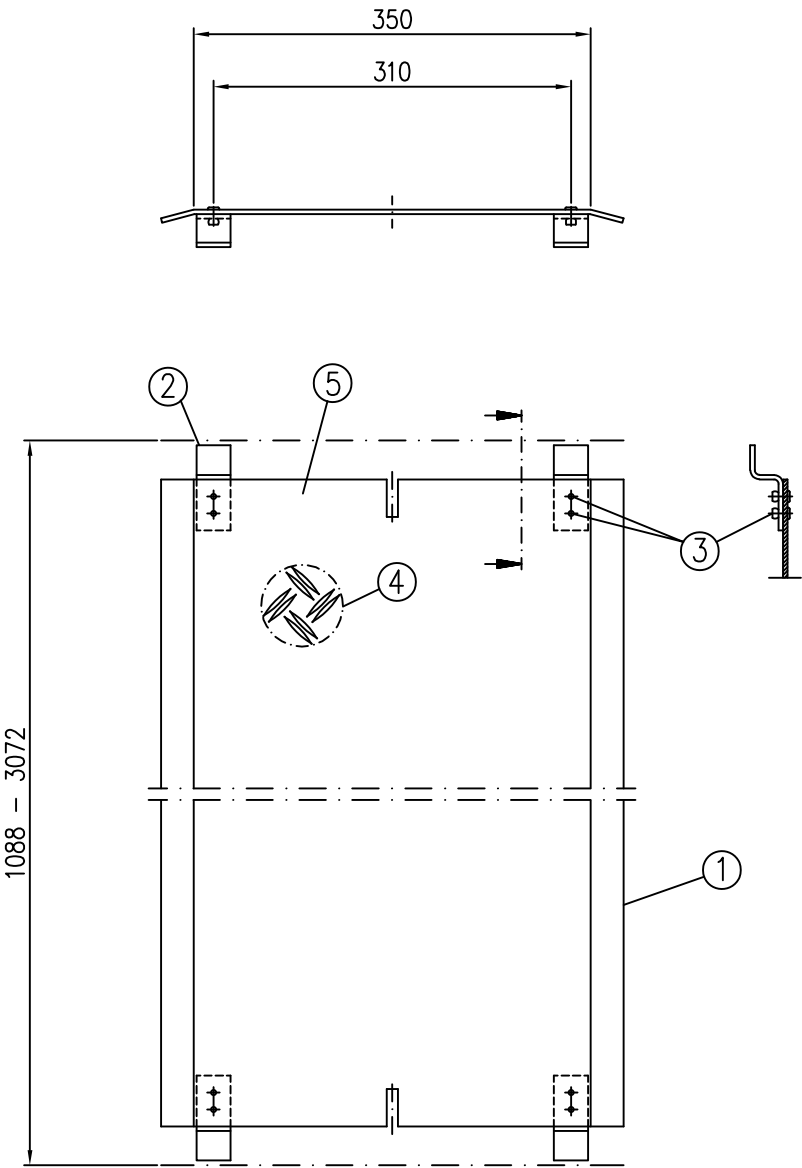
Frame scaffold ALBLITZ 100 S

U-gap cover 0.73 – 3.07 m, steel
in accordance with Z-8.1-16.2

ABS121-A031_AB1

12.2021

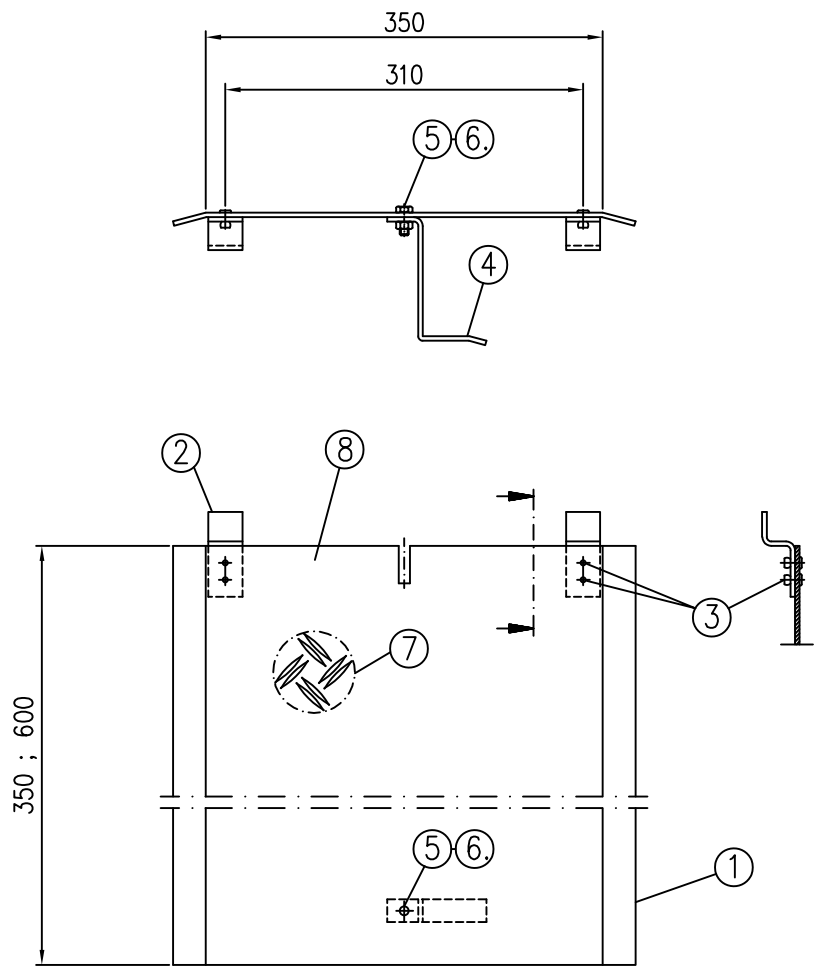
Annex A,
page 152



- ① Aluminium steel metal
- ② Suspension lug
- ③ Blind rivet
- ④ Detailed view surface
- ⑤ Marking

Dimens. [m]	Weight [kg]
1.09	4.9
1.57	6.5
2.07	8.6
2.57	10.6
3.07	12.7

Frame scaffold ALBLITZ 100 S		Annex A, page 153
U–Aluminium gap cover 1.09 – 3.07 m in accordance with Z–8.1–16.2		
ABS710–A143_AB1	12.2021	



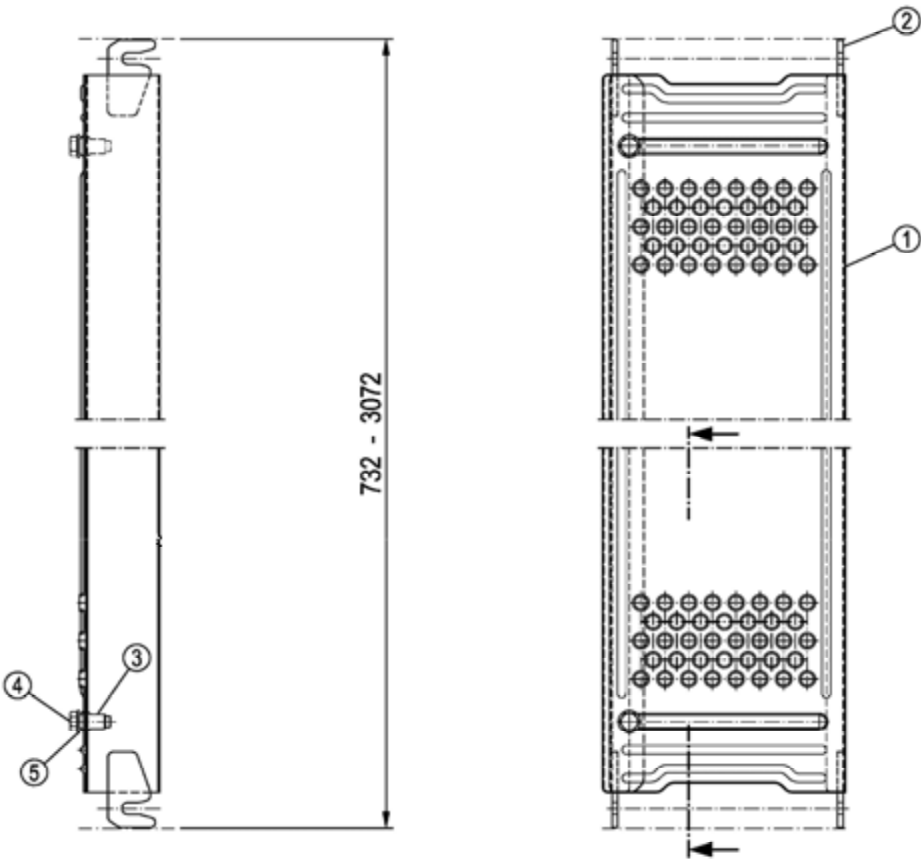
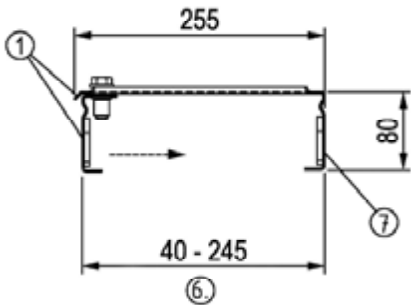
- ① Aluminium steel metal
- ② Suspension lug
- ③ Blind rivet
- ④ Locking plate
- ⑤ Hexagon bolt
- ⑥ Locking nut
- ⑦ Detailed view surface
- ⑧ Marking

Dimens. [m]	Weight [kg]
0.35	2.5
0.60	2.8

Frame scaffold ALBLITZ 100 S		Annex A, page 154
U–Aluminium gap cover 0.35; 0.60 m in accordance with Z–8.1–16.2		
ABS710–A145_AB1	12.2021	

Bay length	for use up to load class	allowable p*) [kN/m²]
≤2.07 m	6	10.0
2.57 m	5	7.5
3.07 m	4	5.0

*) for the entire deck surface



- ① Deck sheet
- ② Suspension hook
- ③ Blind riveting nut
- ④ Hexagon bolt
- ⑤ Washer
- ⑥ Adjusting range
- ⑦ Marking

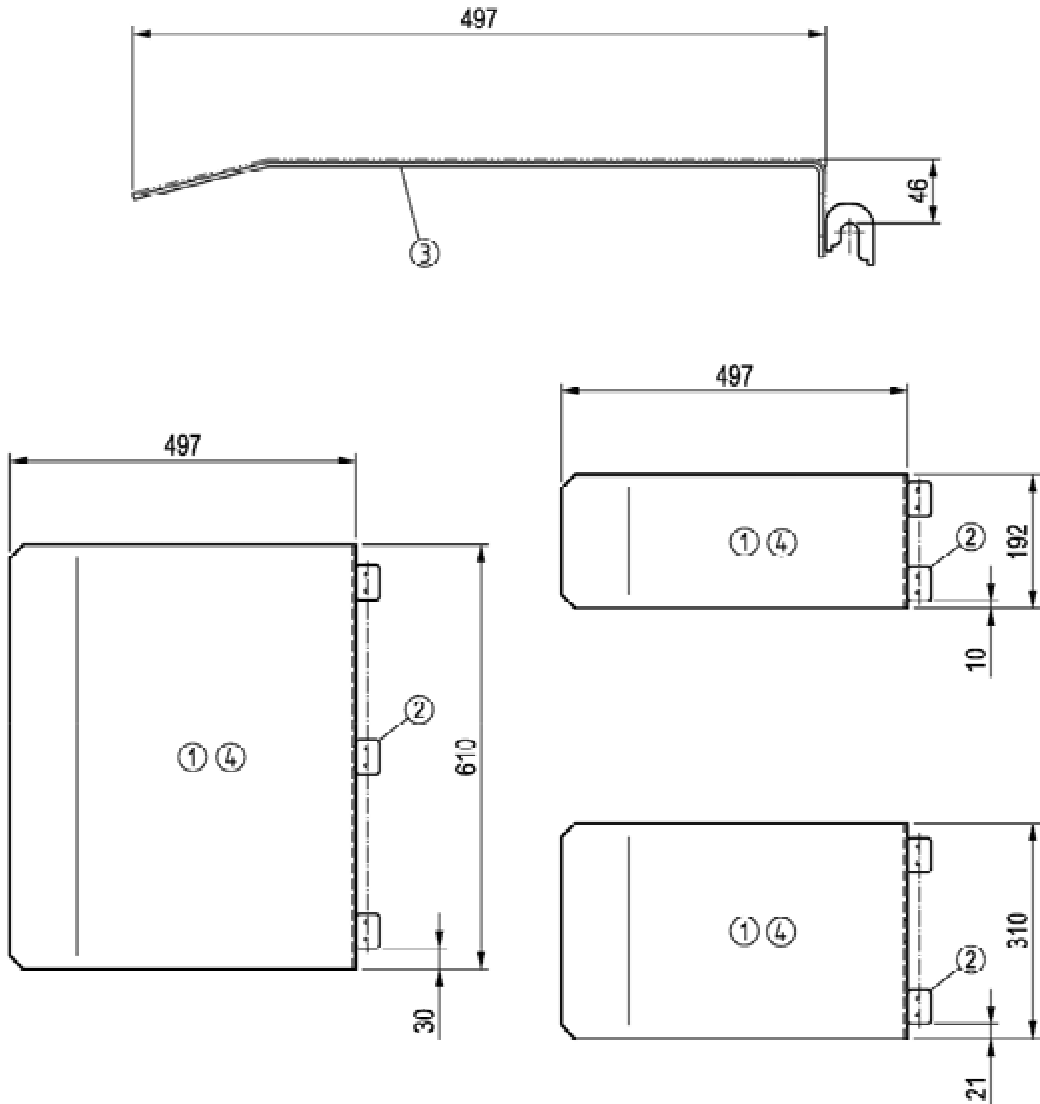
Dimens. [m]	Weight [kg]
0.73	5.2
1.09	7.8
1.57	11.4
2.07	14.9
2.57	18.6
3.07	22.3

Frame scaffold ALBLITZ 100 S	Annex A, page 155
U-gap deck 0.73 – 3.07 m, telescopic in accordance with Z-8.22-939 ABS121-A032_AB1 12.2021	

12.2021

Deck width	for use up to load class	allowable p*) [kN/m²]
610	6	26.5
310		
192		

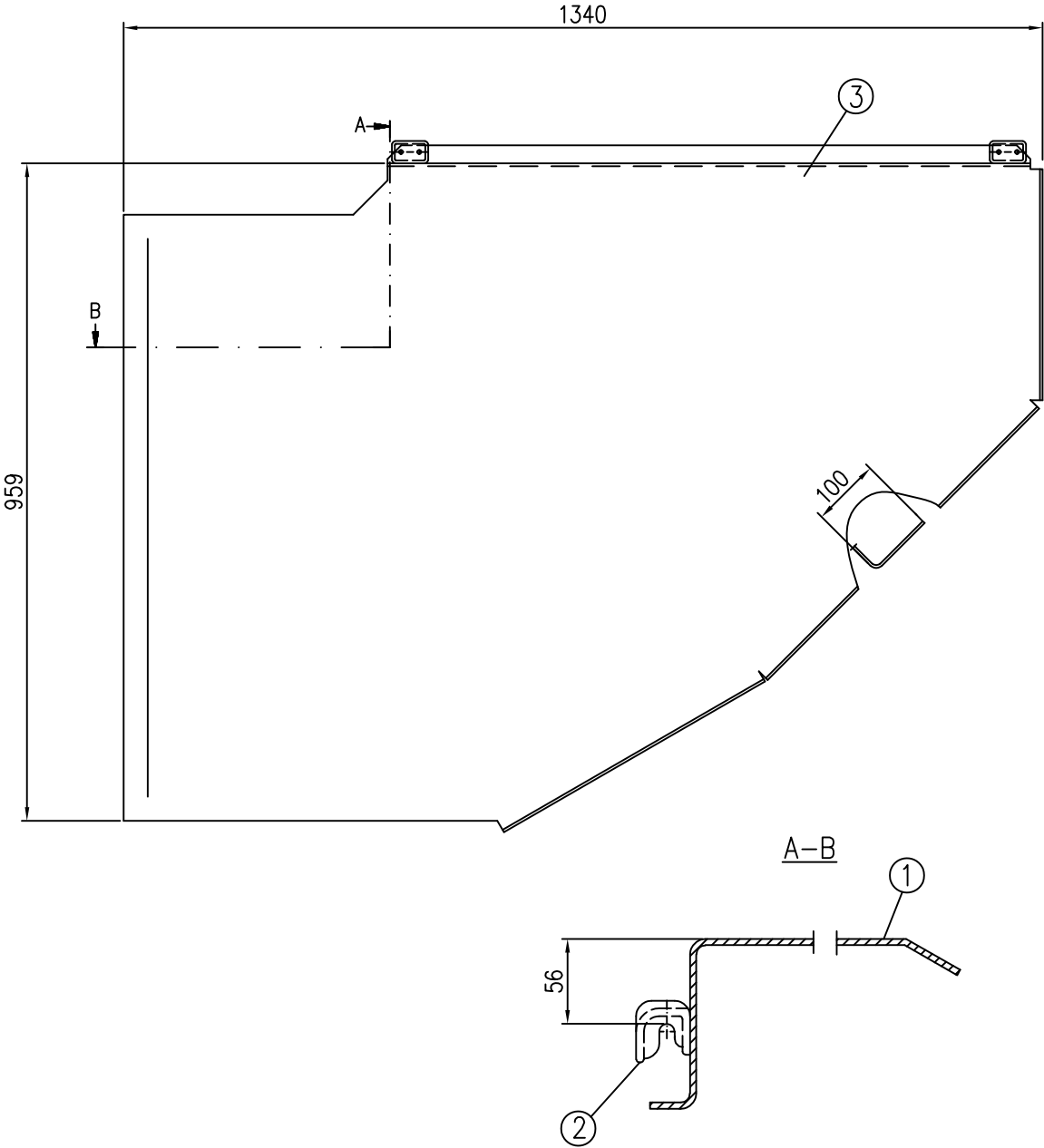
*) for the entire deck surface



- ① Bulb plate
- ② Claw
- ③ Marking
- ④ non-slip working surface

Dimens. [m]	Weight [kg]
0.19	4.3
0.32	7.2
0.61	13.8

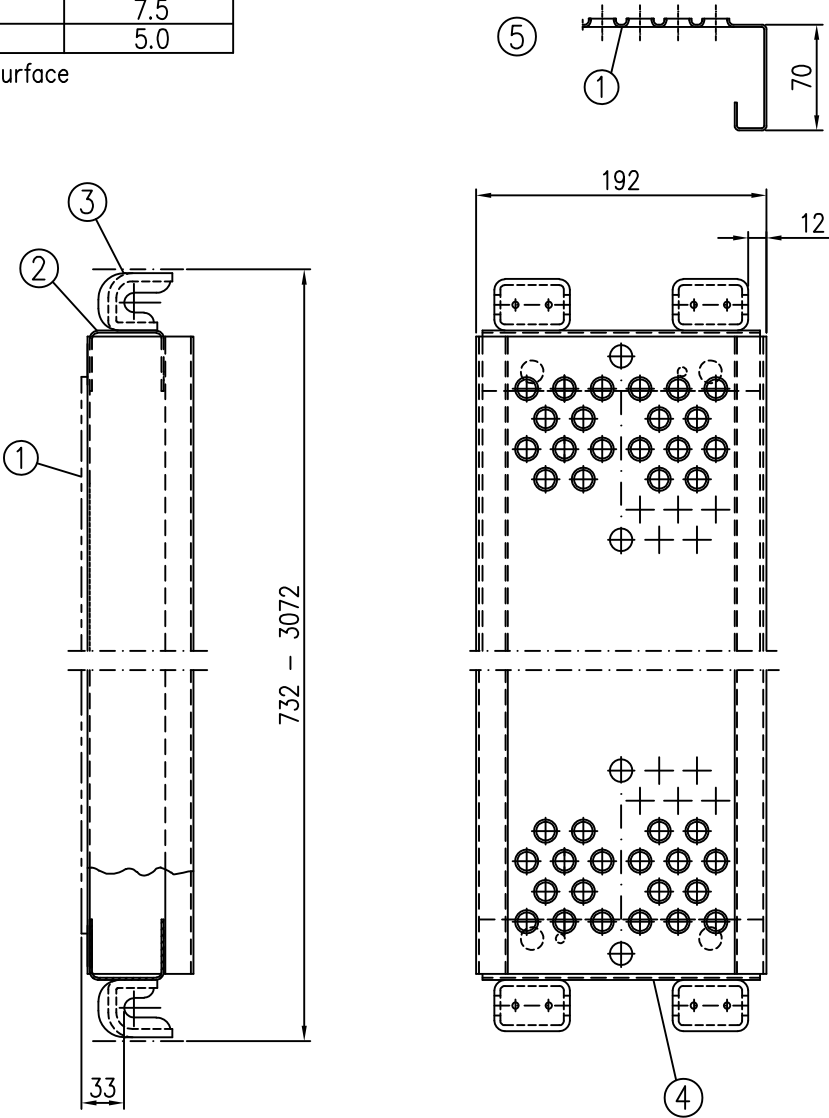
Frame scaffold ALBLITZ 100 S	Annex A, page 156
U-deck for compensation bay 0.19; 0.32; 0.61 x 0.50 m in accordance with Z-8.1-16.2	
ABS121-A033_AB1 12.2021	



① Bulb plate	t=4	EN 10025-2 – S235JR	R _{eH} ≥240 N/mm ² R _m ≥340 N/mm ²	Only for continued use— no longer manufactured	Weight [kg] 35.2
② Claw	t=4	EN 10111 – DD13			
③ Marking					
For use up to load class 4					
Frame scaffold ALBLITZ 100 S				Annex A, page 157	
U-corner deck, rigid with toeboard, steel in accordance with Z-8.1-840					
ABS116-A129_AB1					
12.2021					

Bay length	for use up to load class	allowable p*) [kN/m²]
≤ 2.07 m	6	10.0
2.57 m	5	7.5
3.07 m	4	5.0

*) for the entire deck surface



- ① Deck sheet
- ② Kappe
- ③ Claw
- ④ Marking
- ⑤ Drawing of cross section (suspension not shown)

Dimens. [m]	Weight [kg]
0.73	4.5
1.09	6.0
1.57	8.5
2.07	10.2
2.57	13.2
3.07	15.3

Only for continued use—
no longer manufactured

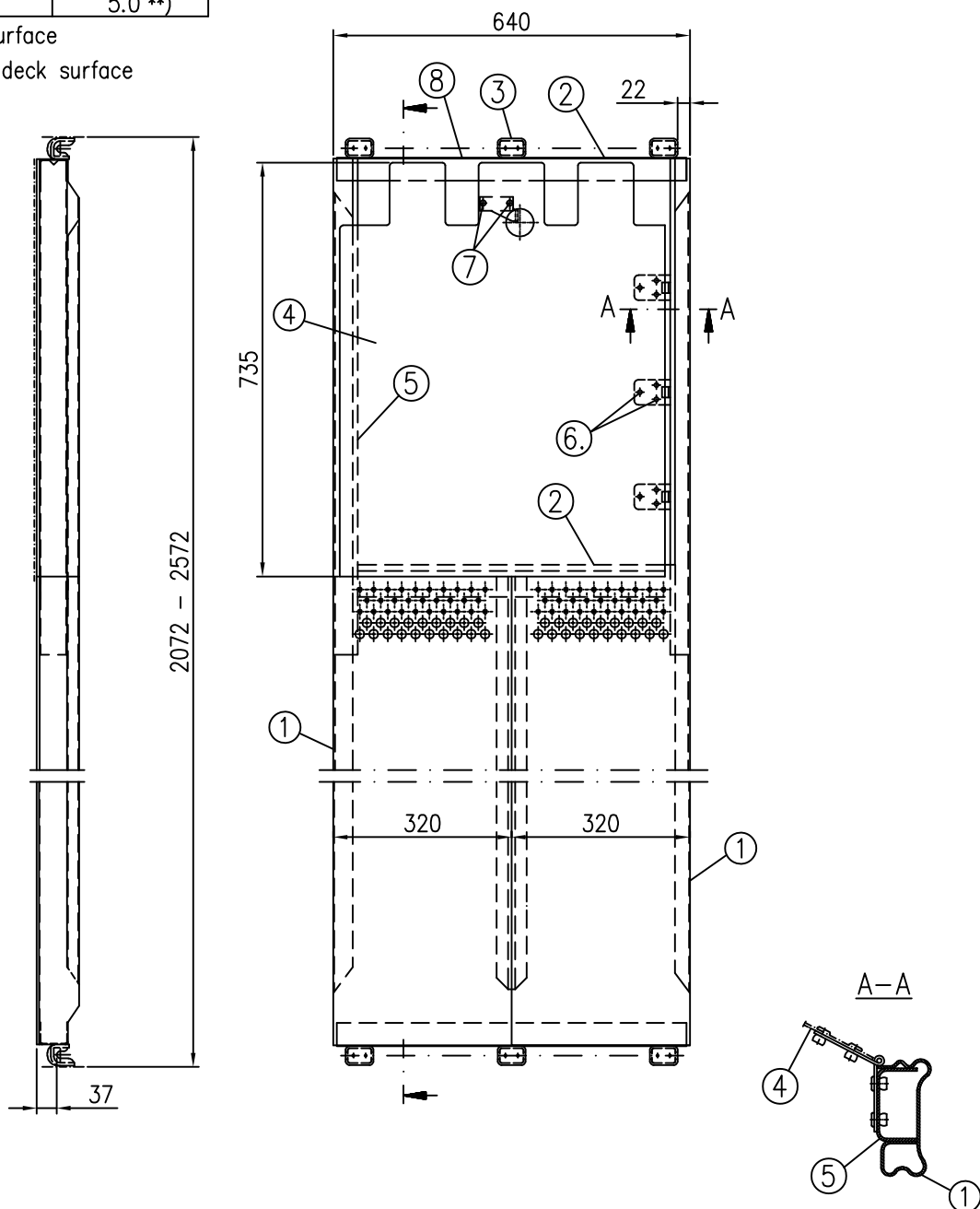
Frame scaffold ALBLITZ 100 S	Annex A, page 158
U-deck 0.73 – 3.07 x 0.19 m, steel (discontinued design) in accordance with Z-8.1-16.2	
ABS710-A118_AB1	

12.2021

Bay length	for use up to load class	allowable p*) [kN/m ²]
≤ 2.57 m	4	3.0 *) 5.0 **)

*) for the entire deck surface

**) acts on 60% of the deck surface



- ① Deck sheet
- ② Head piece
- ③ Claw
- ④ Trapdoor
- ⑤ Reinforcing U
- ⑥ Blind rivet
- ⑦ Blind rivet
- ⑧ Marking

Only for continued use—
no longer manufactured

Dimens. [m]	Weight [kg]
2.07	28.9
2.57	38.0

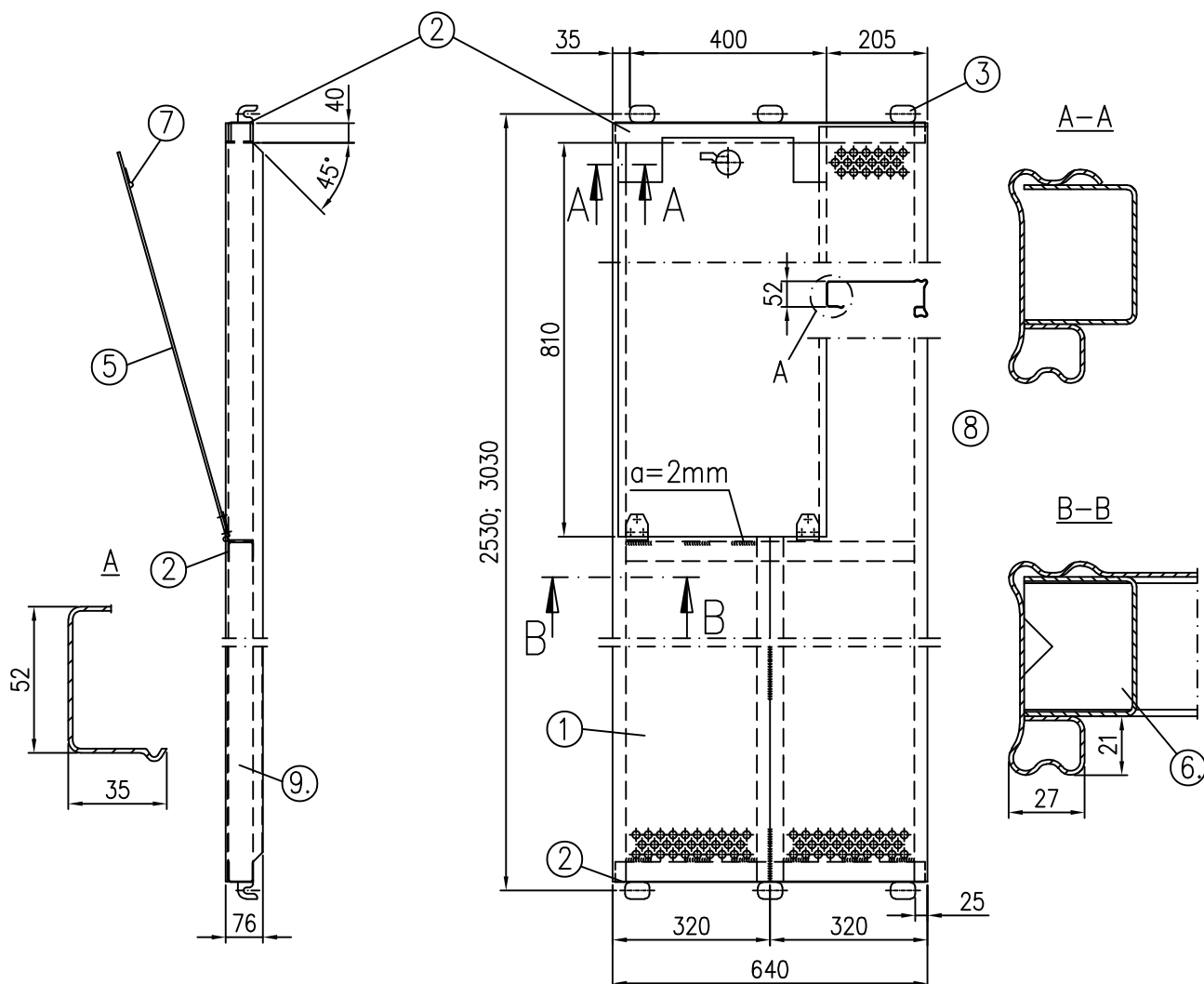
Frame scaffold ALBLITZ 100 S

U-trapdoor deck 2.07 – 2.57 x 0.64 m, steel (trapdoor opens sideways)
in accordance with Z-8.1-16.2

ABS710-A120_AB1

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Annex A,
page 159



- | | | |
|---|-------------------------------|----------|
| ① Deck | Steel metal 1.5 | St37-2 |
| ② Head piece | Steel metal 1.5 | St37-2 |
| ③ Claw | Steel metal 4 | St37-2 |
| ④ Reinforcement | Steel metal 2 | St37-2 |
| ⑤ Trapdoor | Duet chequer plate 3.5 / 5 mm | AlMg3F20 |
| ⑥ L40x49x1.5 | | |
| ⑦ Locking mechanism | | |
| ⑧ Cutting edges in access area are finished | | |
| ⑨ Marking: Layer / year | | |

Use for scaffolds of load class 4

Only for continued use—
no longer manufactured

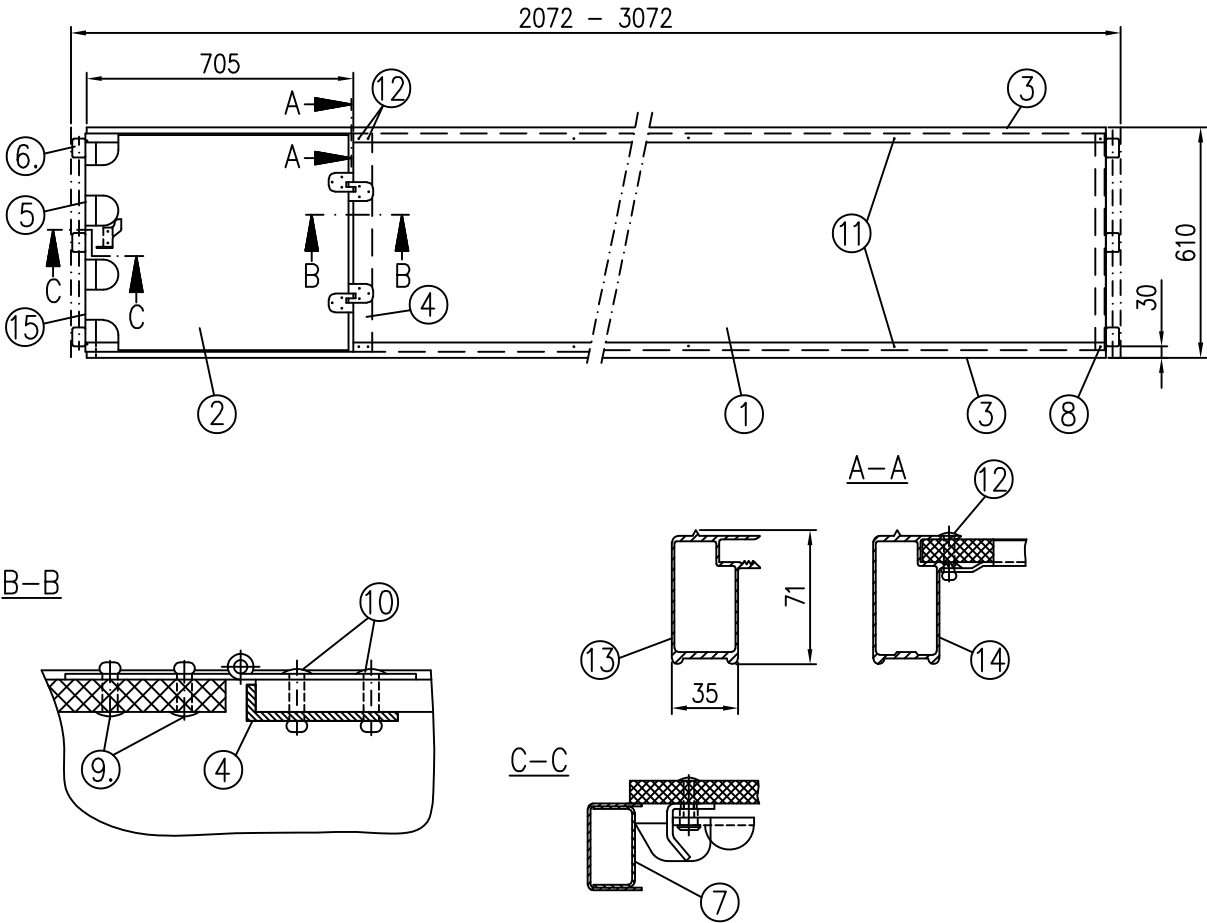
Frame scaffold ALBLITZ 100 S

U-trapdoor deck 2.57 – 3.07 x 0.64 m, steel
in accordance with Z-8.1-840

ABS116-A136_AB1

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Annex A,
page 160



- ① Plywood
- ② Trapdoor
- ③ Stile
- ④ Reinforcement
- ⑤ Head piece
- ⑥ Claw
- ⑦ Reinforcement
- ⑧ Blind rivet
- ⑨ Blind rivet
- ⑩ Blind rivet
- ⑪ Blind rivet
- ⑫ Blind rivet
- ⑬ Profile for 3.07 m
- ⑭ Profile for 2.07 and 2.57 m
- ⑮ Marking

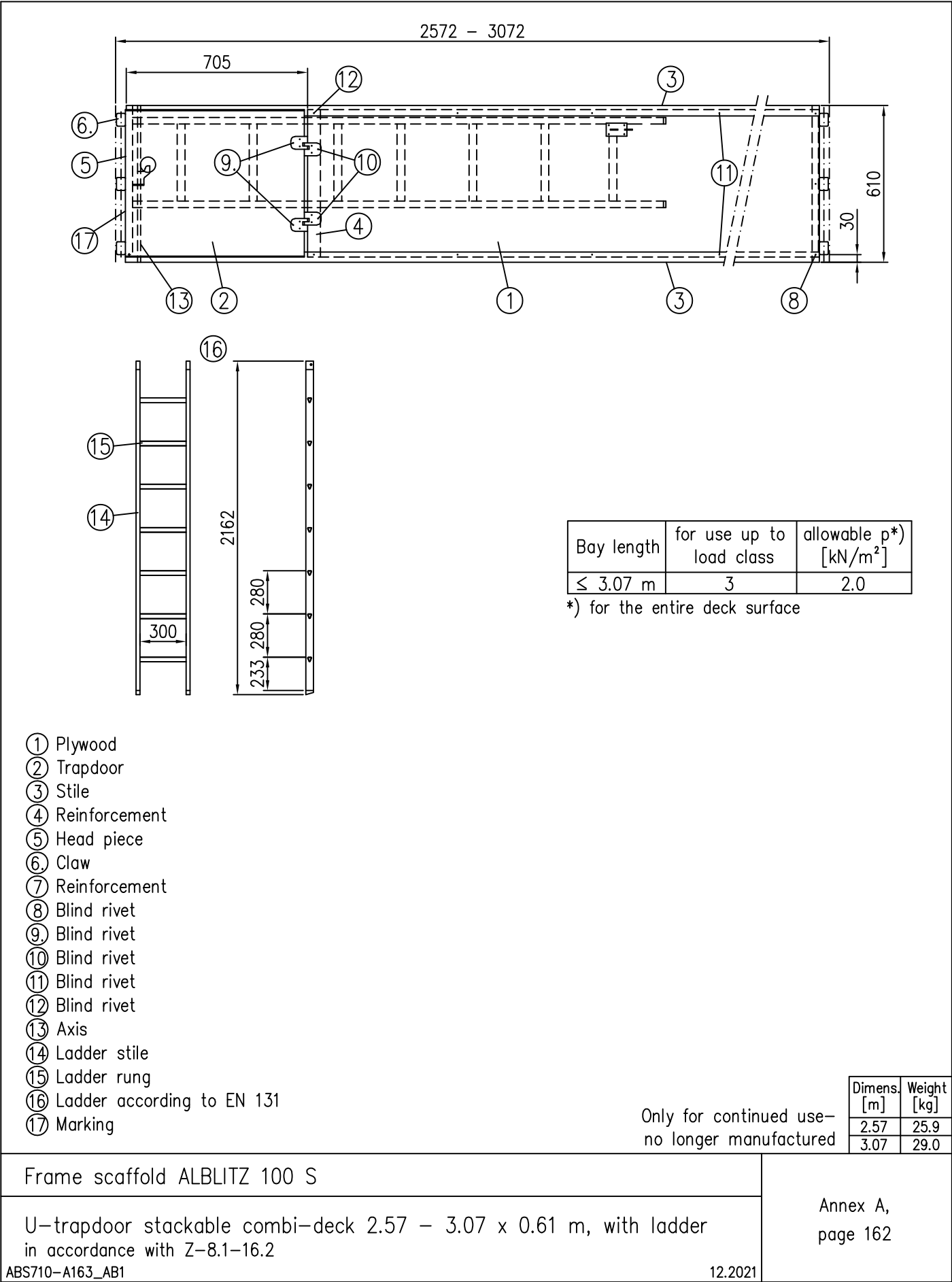
Bay length	for use up to load class	allowable p*) [kN/m²]
≤ 3.07 m	3	2.0

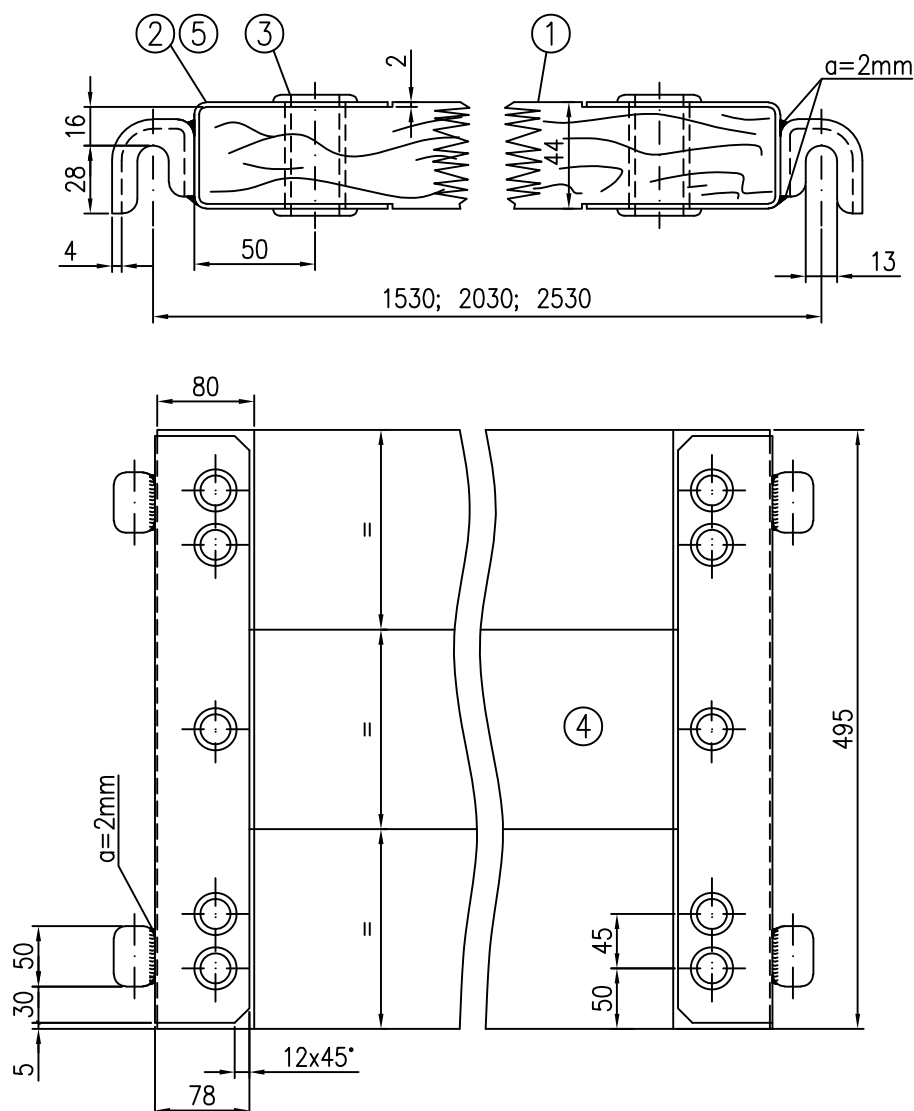
*) for the entire deck surface

Dimens. [m]	Weight [kg]
2.07	15.8
2.57	18.8
3.07	22.7

Only for continued use—
no longer manufactured

Frame scaffold ALBLITZ 100 S	Annex A, page 161
U-trapdoor stackable combi-deck 2.07 – 3.07 x 0.61 m in accordance with Z-8.1-16.2	
ABS710-A162_AB1	





- | | | |
|--|----------|---|
| ① Wood | Grade II | Marking: Year of manufacturing with non-erasable stamp imprint on the bottom side |
| ② End piece with hook | St37-2 | |
| ③ Hollow rivet $\varnothing 25 \times 2.5$ | St37 | Distance: 1/4 |
| ④ Long edge suspension with 3 dowels | St37 | |
| ⑤ Cap 1.7 mm | | |

Use for scaffolds of load class 4

Design: Natural wood colour with stamp imprint

"Layher" frame platform with 300 kp/m² load capacity.

Only for continued use—
no longer manufactured

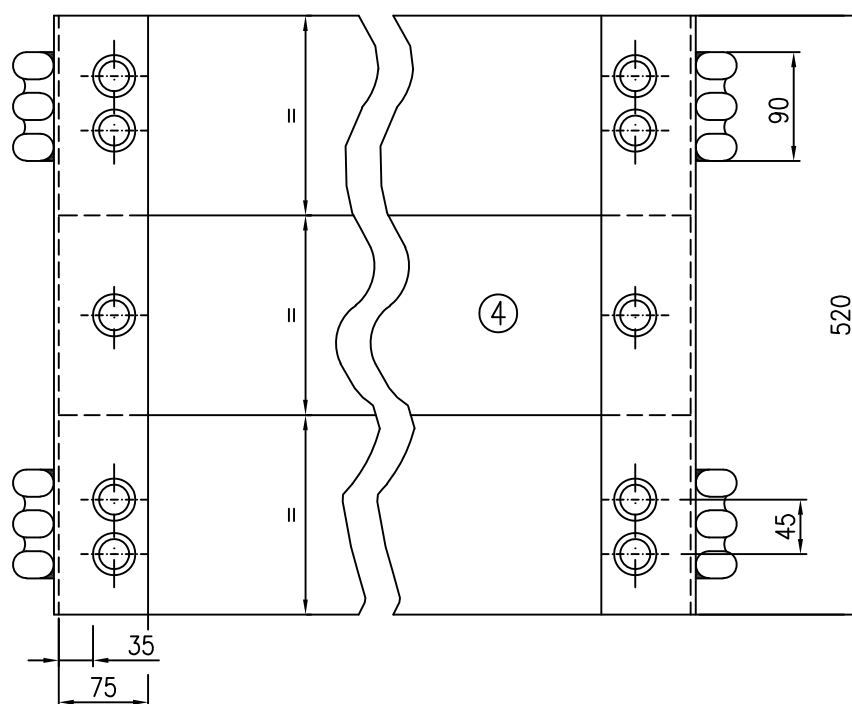
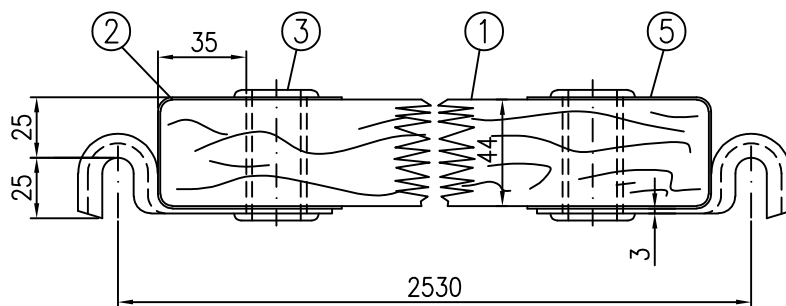
Frame scaffold ALBLITZ 100 S

U-frame deck 1.57 – 2.57 x 0.50 m, solid wood
in accordance with Z-8.1-840

ABS105-A134_AB1

12.2021

Annex A,
page 163



- | | | |
|--|----------|---------------|
| ① Wood | Grade II | |
| ② End piece with hook | St37-2 | |
| ③ Hollow rivet $\varnothing 25 \times 1.5$ | St37 | |
| ④ Long edge suspension with 3 dowels | St37 | Distance: 1/4 |
| ⑤ Cap 1 mm | | |

Use for scaffolds of load class 4

Design: Natural wood colour with stamp imprint

Layher frame platform for 300 kg/m² load capacity

Only for continued use—
no longer manufactured

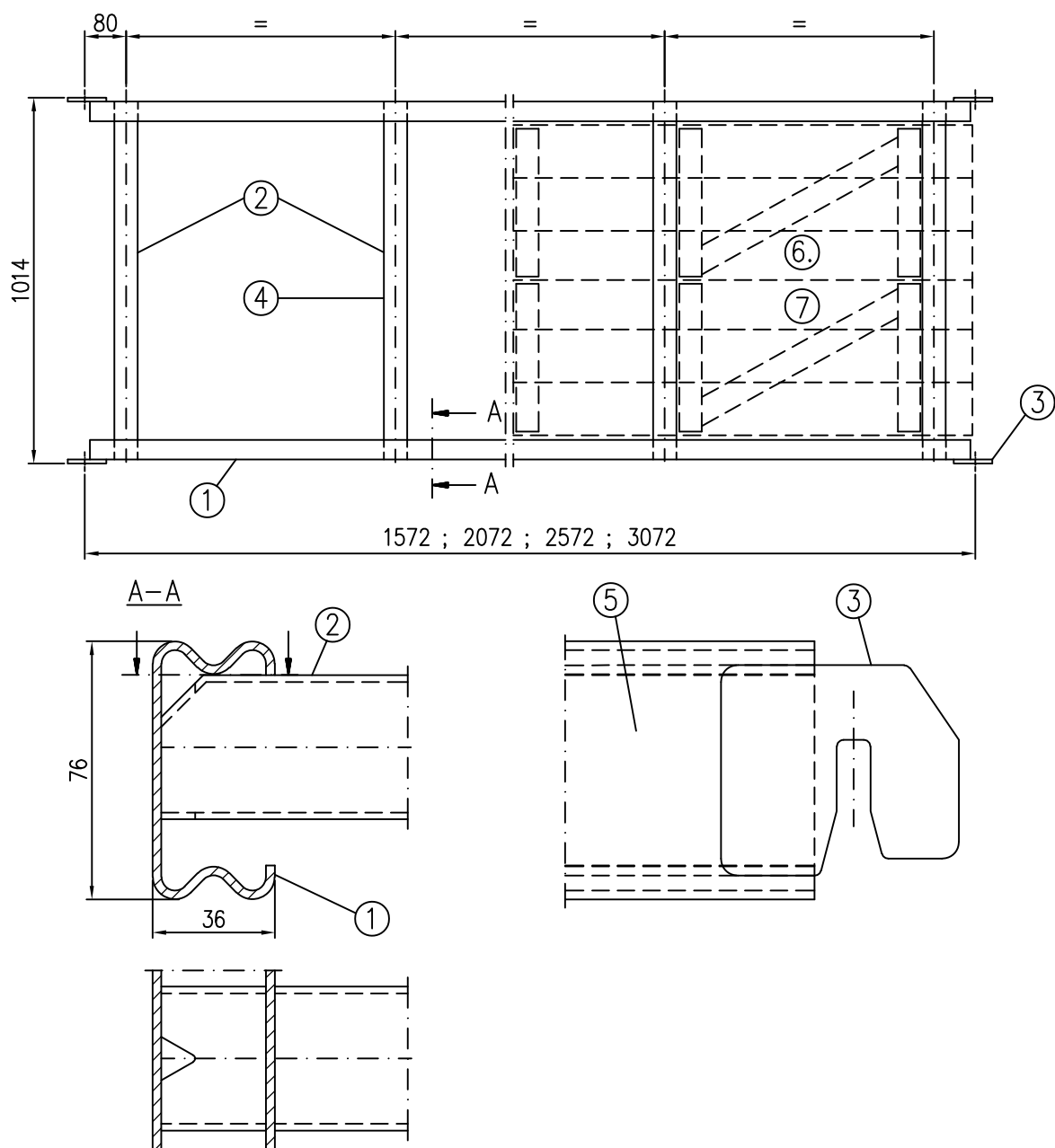
Frame scaffold ALBLITZ 100 S

U-frame deck 2.57 x 0.52 m, solid wood
in accordance with Z-8.1-840

Annex A,
page 164

ABS105-A135_AB1

12.2021



- ① Profile 76x36x2.5 EN 10025-2 – S355J0
 ② Tube $\varnothing 42.4 \times 3.2$ EN 10219 – S235JRH
 ③ Suspension hook 70x62x8 EN 10025-2 – S355JR
 ④ for versions with length 1.57 m and 2.07 m: one rung less
 ⑤ Marking
 ⑥ fit with wooden planks according to Annex A, page 166
 ⑦ Secure the wooden planks by means of a locking plate to prevent unintentional
 liftoff Annex A, page 167
For use up to load class 4 (3.07m) ; 5 (2.57 ; 2.07m) ; 6 (1.57m)

Only for continued use –
no longer manufactured

Dimens. [m]	Weight [kg]
1.57	20.0
2.07	23.5
2.57	30.9
3.07	32.5

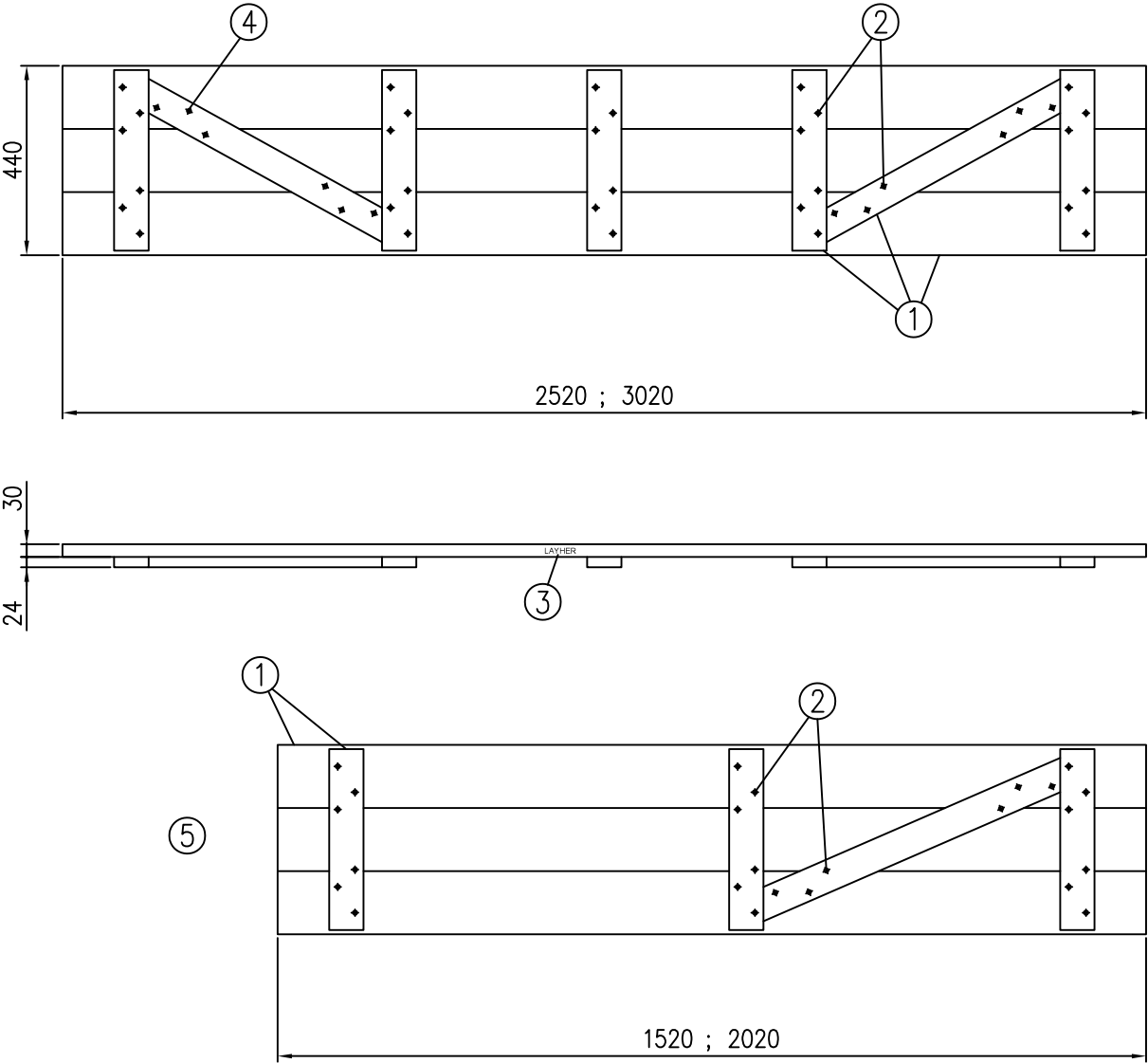
Frame scaffold ALBLITZ 100 S

Deck frame 1.57 – 3.07 x 1.09 m
in accordance with Z-8.1-840

ABS105-A114_AB1

12.2021

Annex A,
page 165

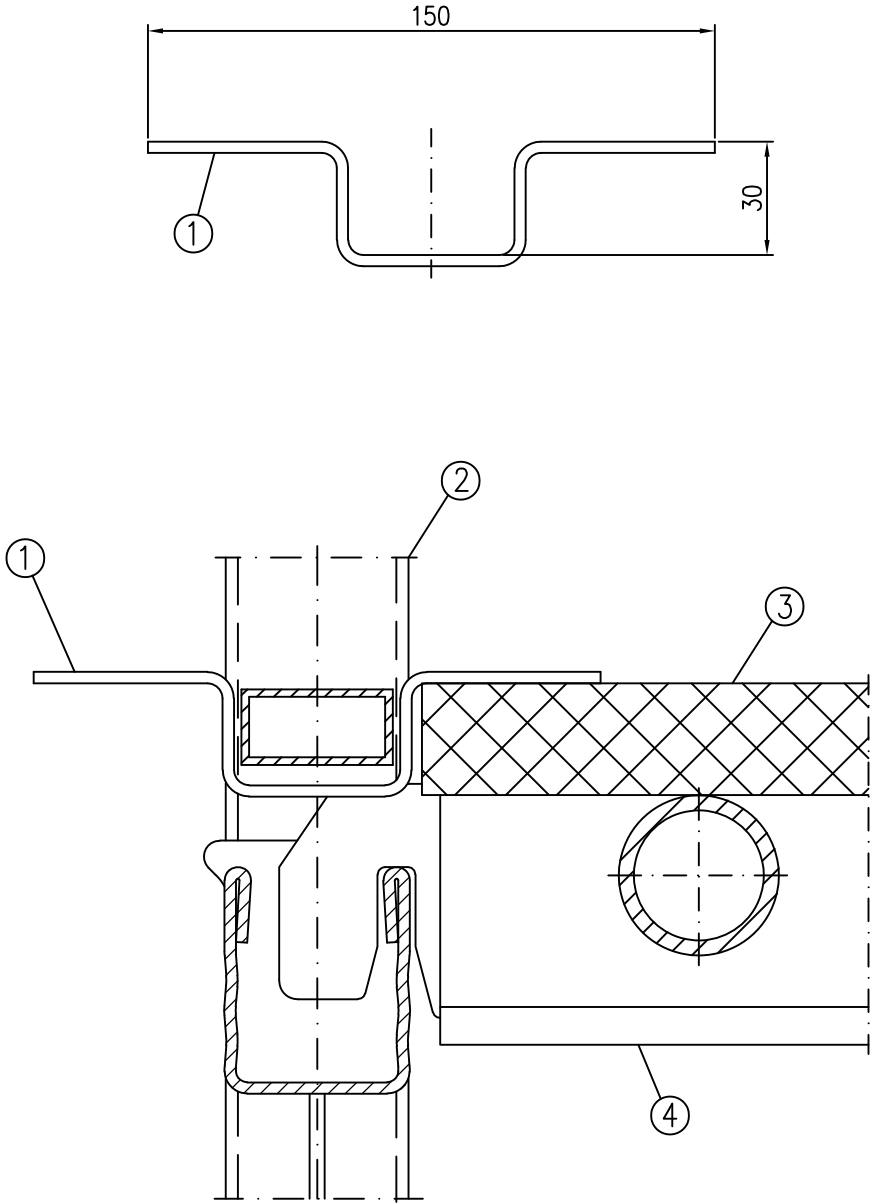


- ① Softwood S10–FI DIN 4047
- ② Nails NK 2.9x75 galvanised
- ③ Marking
- ④ nailed: minimum spacing in accordance with DIN 1052
- ⑤ Wooden planks for deck frame according to Annex A, page 165

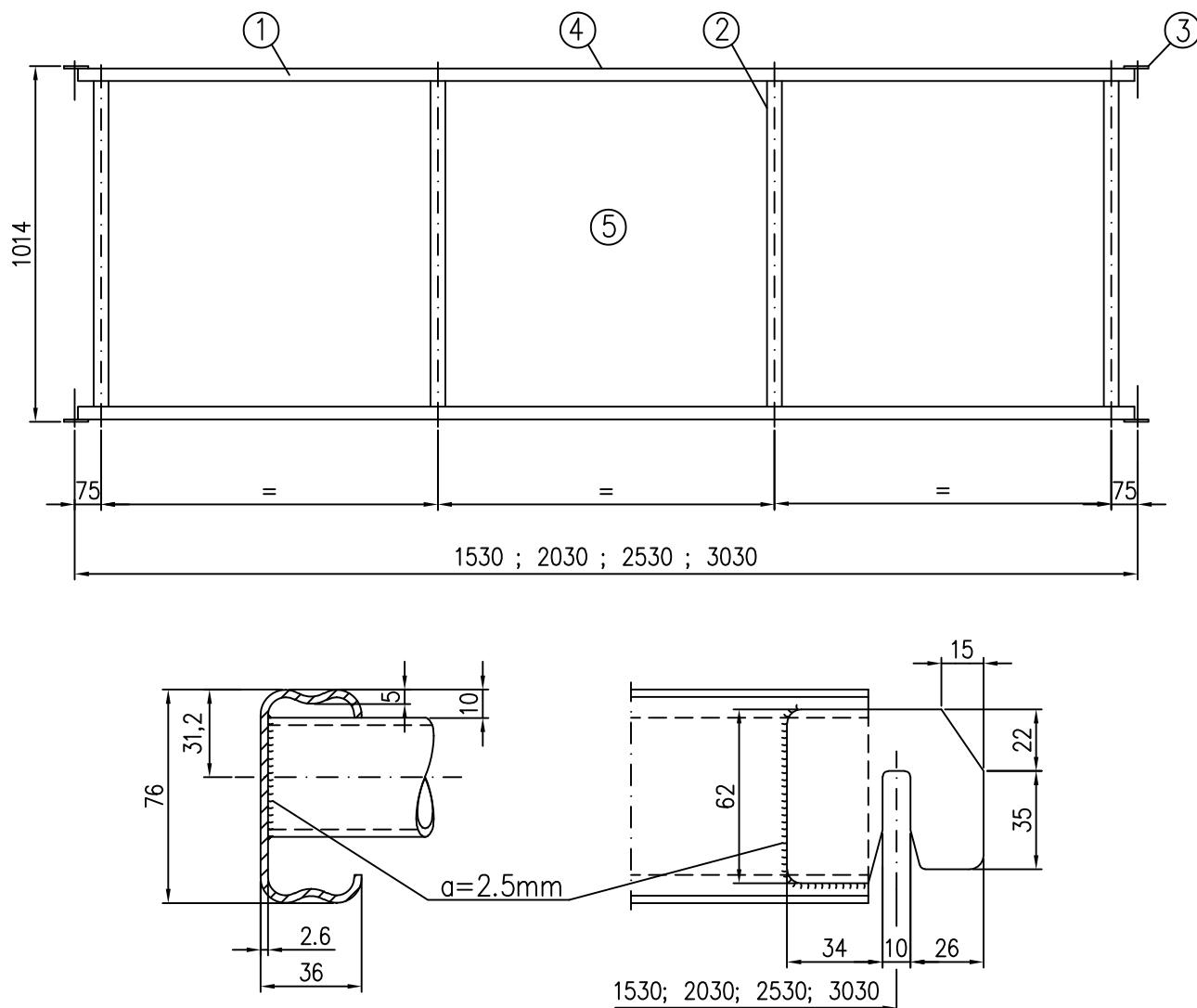
Only for continued use–
no longer manufactured

Dimens. [m]	Weight [kg]
1.57	10.0
2.07	14.2
2.57	20.1
3.07	22.1

Frame scaffold ALBLITZ 100 S	Annex A, page 166
Wooden plank 1.57 – 3.07 x 0.44 m in accordance with Z–8.1–840	
ABS105–A115_AB1 12.2021	



① Locking plate	50x3	EN 10025-2 – S235JR	Only for continued use— no longer manufactured	Weight [kg]
② Assembly frame				0.2
③ Wooden plank				
④ Deck frame				
Frame scaffold ALBLITZ 100 S			Annex A, page 167	
Locking plate in accordance with Z-8.1-840				
ABS105-A116_AB1				12.2021



- ① U-profile 36 x 76 x 2.6 St37-2
- ② Tube $\varnothing 42.4 \times 2.9$ St37-2
- ③ Claw Steel metal 62 x 70 x 7 St37-2
- U-profile 36 x 78 x 2.8
- ④ Marking: Layher / year
- ⑤ for versions with axis 1.50 m: one rung less

Use for scaffolds of load class 4

Only for continued use—
no longer manufactured

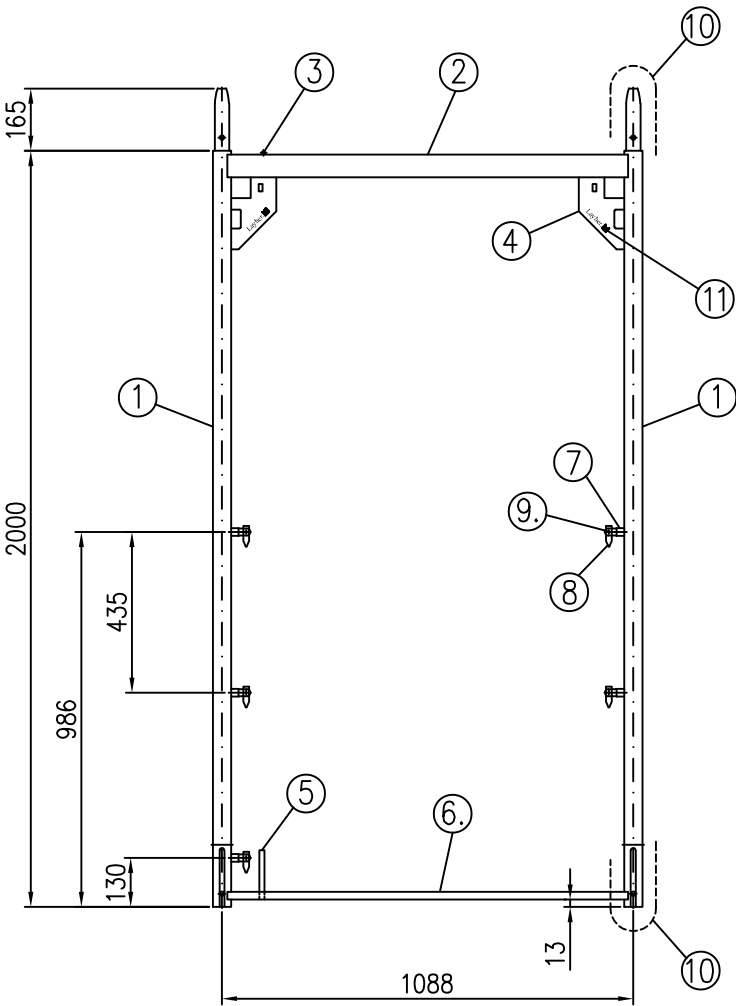
Frame scaffold ALBLITZ 100 S

Horizontal frame 1.57 – 3.07 x 1.00 m
in accordance with Z-8.1-840

ABS116-A143_AB1

12.2021

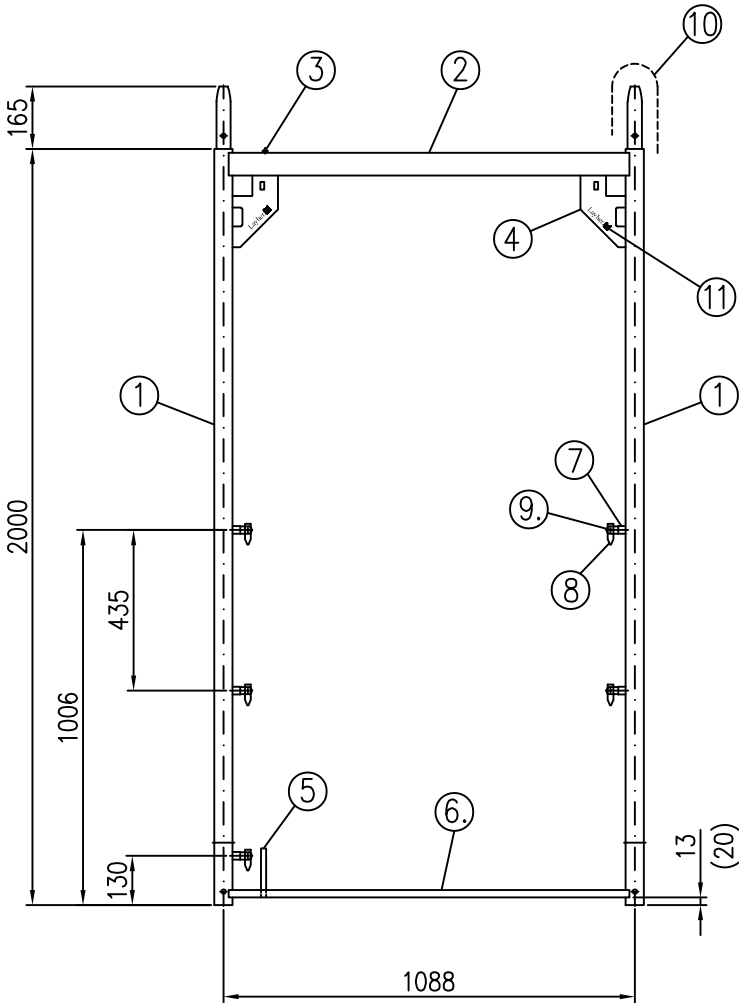
Annex A,
page 168



- | | | | |
|----------------------------|----------------------|-------------------|------------------------|
| ① Tube | ø48.3 x 2.7 | EN 10219-S460MH | |
| ② U-profile | 49 x 53 x 2.5 | EN 10149-2-S460MC | (see Annex A, page 22) |
| ③ Pin | | Steel | |
| ④ Lightweight gusset plate | | Steel | |
| ⑤ Toeboard pin | | Steel | |
| ⑥ Rectangular tube | 40 x 20 x 2 | Steel | |
| ⑦ Tilt pin bolt | | Steel | |
| ⑧ Tilt pin flap | | Steel | |
| ⑨ Blind rivet | | Aluminium | |
| ⑩ | see Annex A, page 21 | | |
| ⑪ | Marking | | |

Weight [kg]
21.3

Frame scaffold ALBLITZ 100 S	Annex A, page 169
Lightweight EXP-assembly frame 2.00 x 1.09 m, steel in accordance with Z-8.1-840 ABS116-A144_AB1	
12.2021	

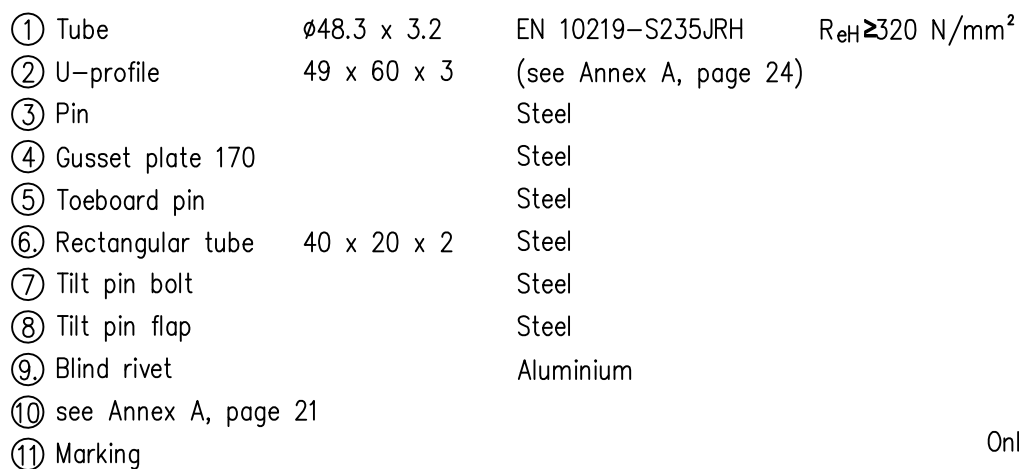


- | | | | |
|----------------------------|-------------|------------------------|----------------------------------|
| ① Tube | ∅48.3 x 3.2 | EN 10219-S235JRH | $R_{eH} \geq 320 \text{ N/mm}^2$ |
| ② U-profile | 49 x 60 x 3 | (see Annex A, page 24) | |
| ③ Pin | | Steel | |
| ④ Lightweight gusset plate | | Steel | |
| ⑤ Toeboard pin | | Steel | |
| ⑥ Rectangular tube | 40 x 20 x 2 | Steel | |
| ⑦ Tilt pin bolt | | Steel | |
| ⑧ Tilt pin flap | | Steel | |
| ⑨ Blind rivet | | Aluminium | |
| ⑩ see Annex A, page 21 | | | |
| ⑪ Marking | | | |

Only for continued use—
no longer manufactured

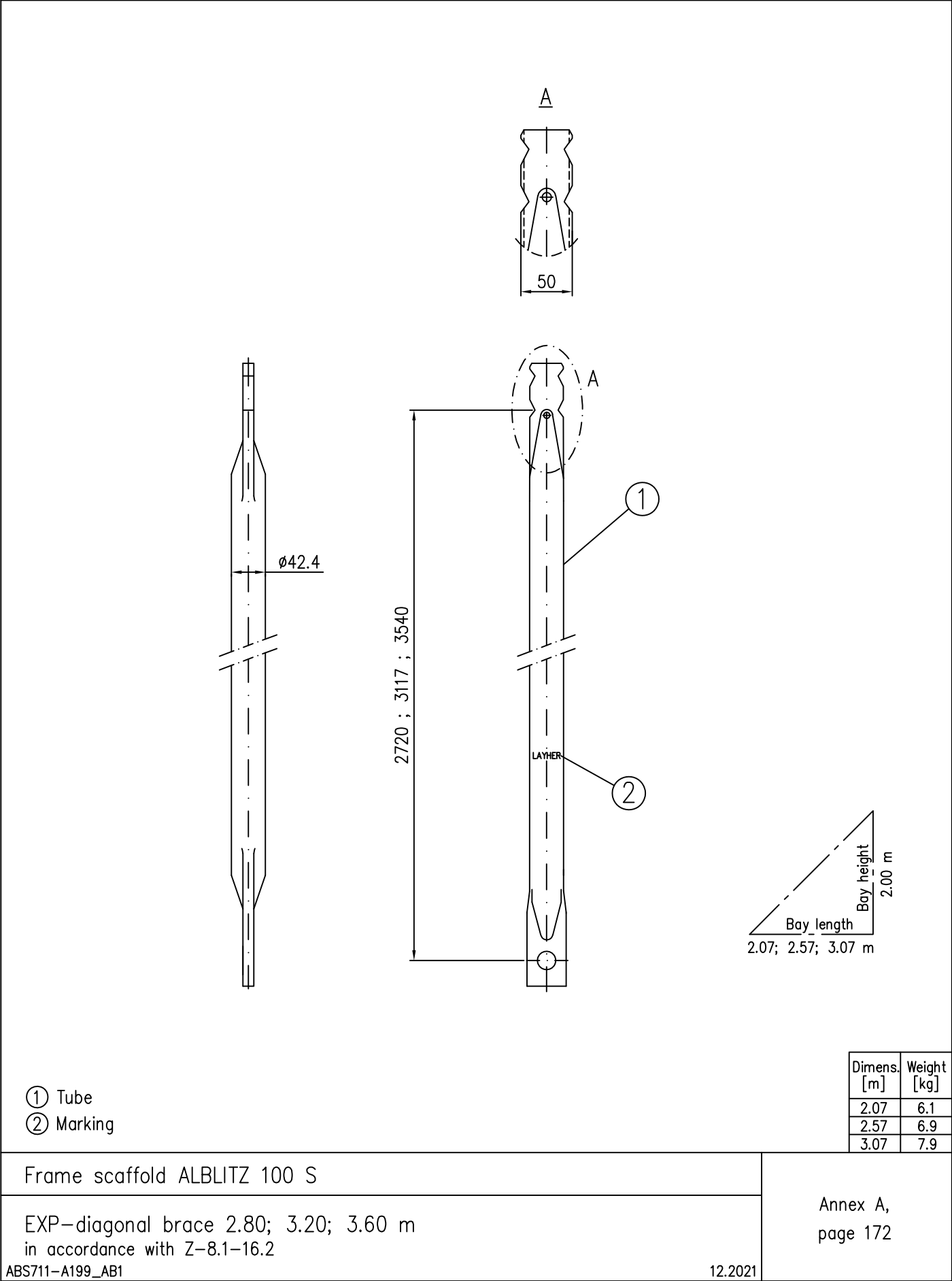
Weight [kg]
24.3

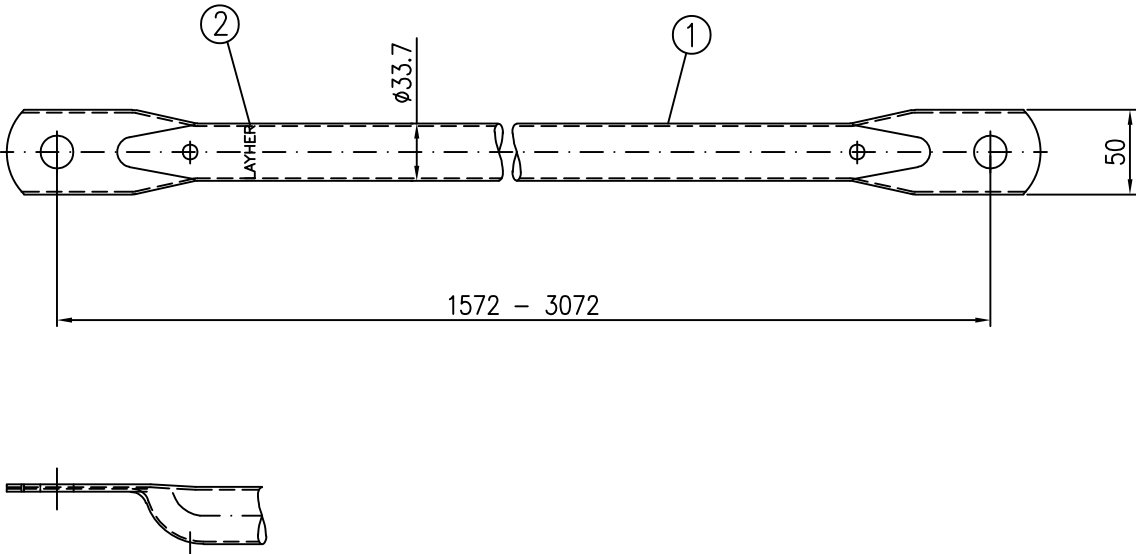
Frame scaffold ALBLITZ 100 S	Annex A, page 170
EXP–assembly frame 2.00 x 1.09 m, steel in accordance with Z–8.1–840	
ABS116–A145_AB1	



Weight [kg]
24.3

Annex A,
page 171

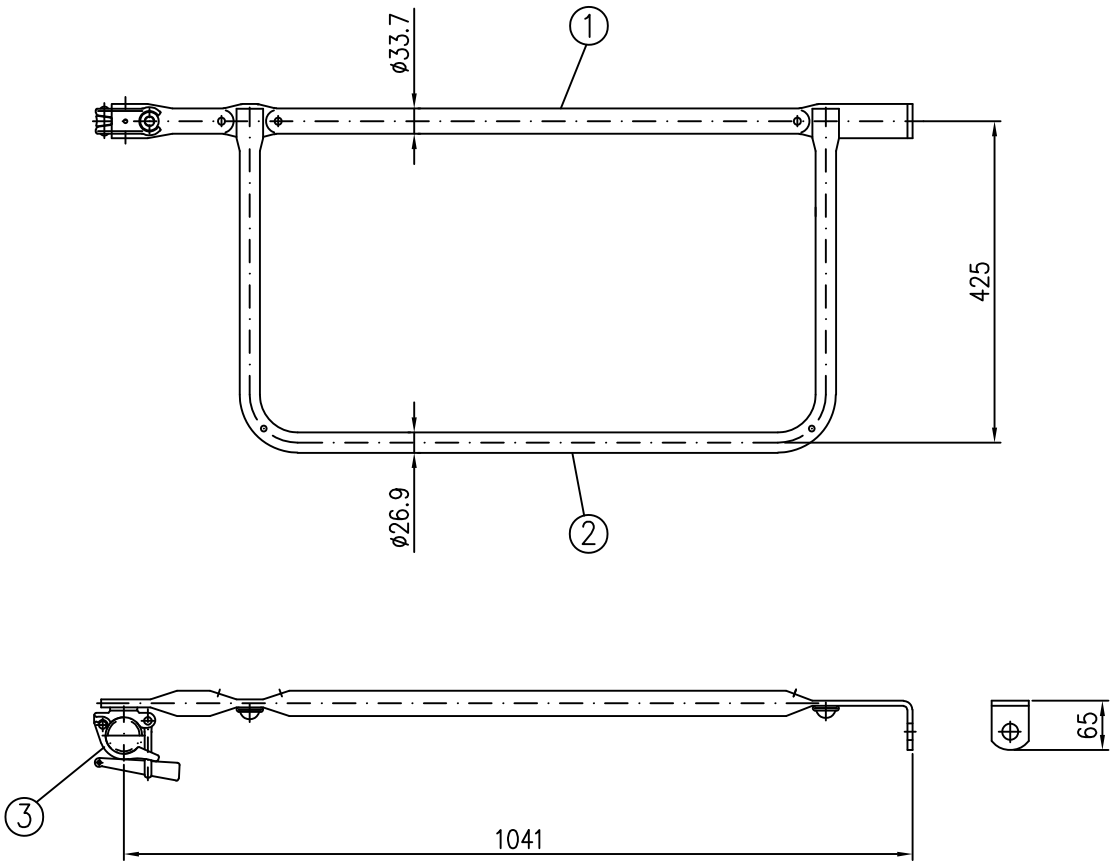




- ① Tube
- ② Marking

Dimens. [m]	Weight [kg]
1.57	3.5
2.07	4.5
2.57	5.5
3.07	6.6

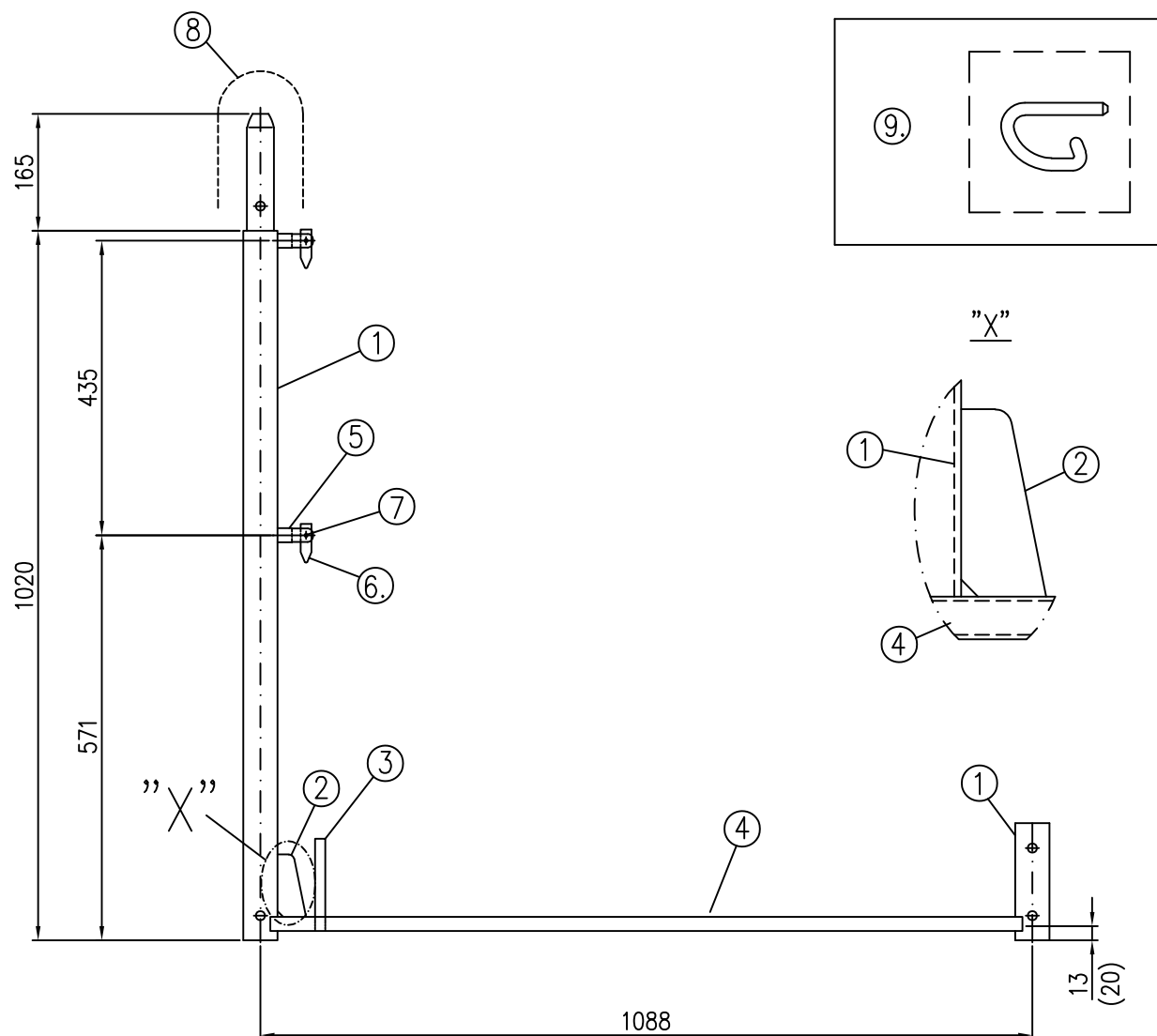
Frame scaffold ALBLITZ 100 S	Annex A, page 173
EXP guardrail 1.57 – 3.07 m in accordance with Z–8.1–16.2	
ABS711–A200_AB112.2021	



- | | |
|---|---|
| ① Tube | Steel |
| ② Tube | Steel |
| ③ Halfcoupler with wedge-lock | in accordance with approval Z-8.331-882 |
| alternatively: Halfcoupler with screw top | in accordance with approval Z-8.331-882 |

Weight [kg]
5.9

Frame scaffold ALBLITZ 100 S	Annex A, page 174
EXP-double end guardrail 1.09 m in accordance with Z-8.1-840	
ABS116-A149_AB112.2021	



- | | | | |
|--------------------|-------------------|------------------|----------------------------------|
| ① Tube | ∅48.3 x 3.2 (2.7) | EN 10219-S235JRH | $R_{eH} \geq 320 \text{ N/mm}^2$ |
| ② Gusset plate | | Steel | |
| ③ Toeboard pin | | Steel | |
| ④ Rectangular tube | 40 x 20 x 2 | Steel | |
| ⑤ Tilt pin bolt | | Steel | |
| ⑥ Tilt pin flap | | Steel | |
| ⑦ Blind rivet | | Aluminium | |

⑧ see Annex A, page 21

⑨ As deck lift-off prevention for the topmost decks,
we advise securing the guardrail post by means of locking pins!

Weight [kg]
7.6

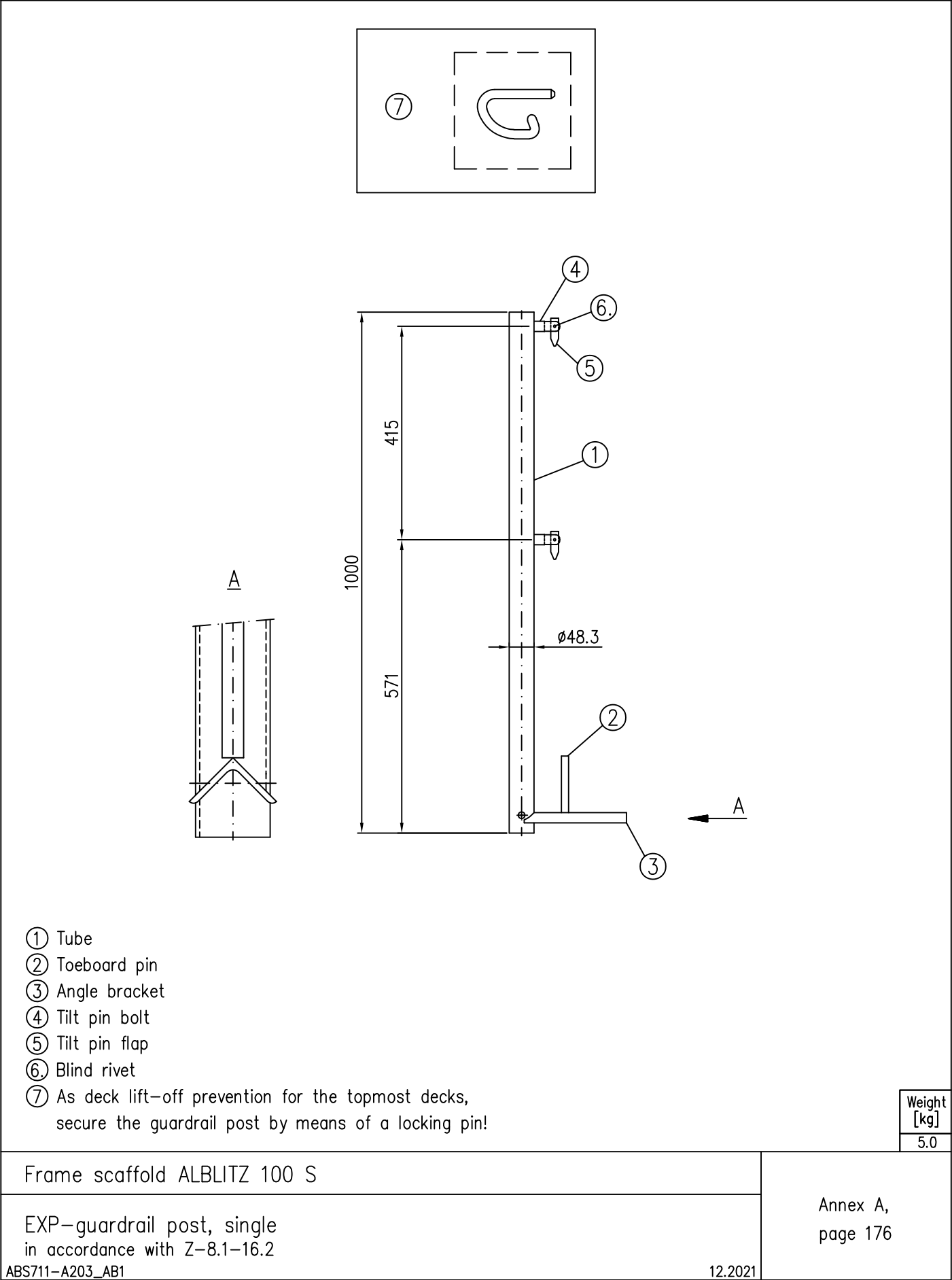
Frame scaffold ALBLITZ 100 S

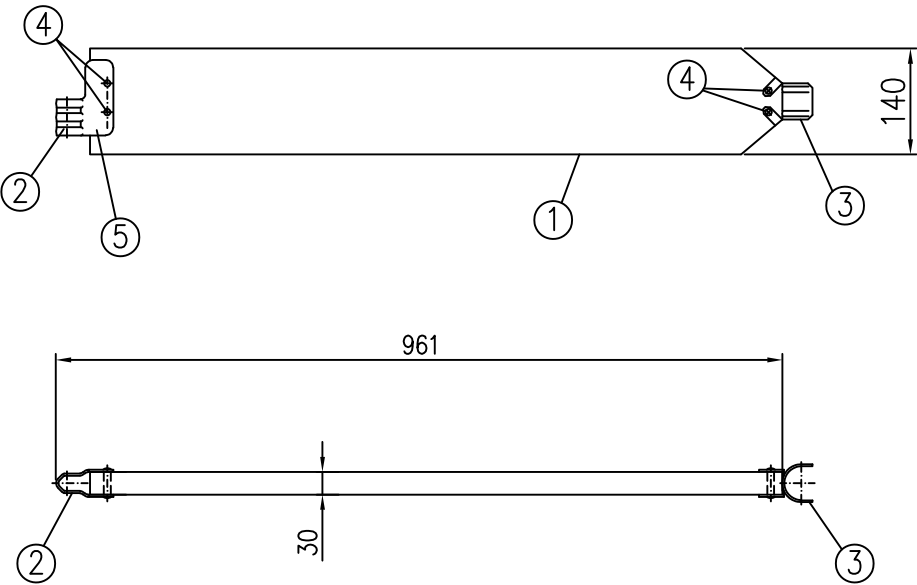
EXP-guardrail post 1.09 m
in accordance with Z-8.1-840

ABS116-A150_AB1

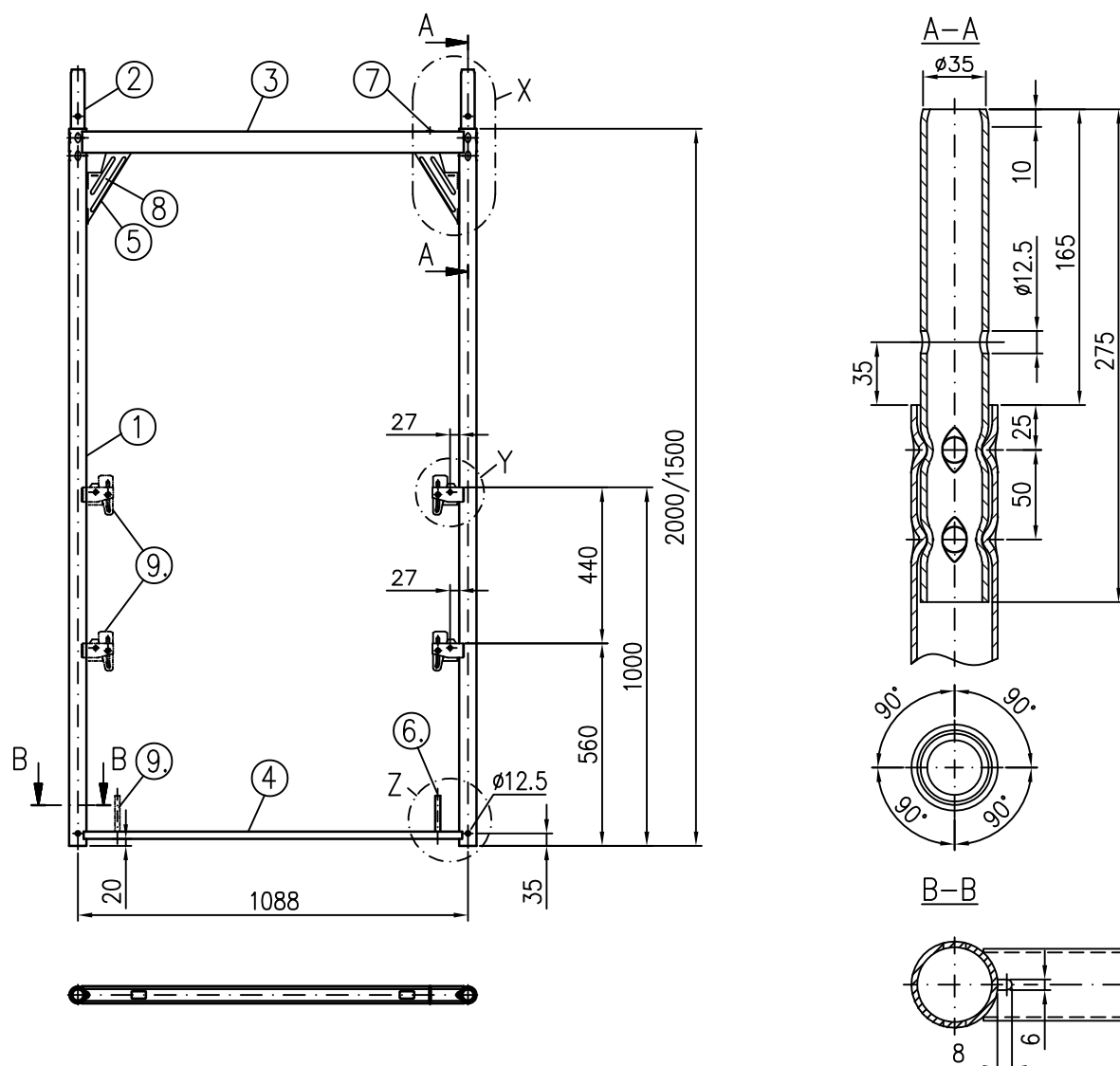
12.2021

Annex A,
page 175





① Wooden plank	140 x 30	DIN 4074–S10–Fi or strength class C24	<table><tr><td>Weight [kg]</td></tr><tr><td>2.2</td></tr></table>	Weight [kg]	2.2
Weight [kg]					
2.2					
② Toeboard fitting		Steel			
③ End toeboard fitting		Steel			
④ Round head rivet		Steel			
⑤ Marking					
Frame scaffold ALBLITZ 100 S			Annex A, page 177		
EXP–end toeboard 1.09 m in accordance with Z–8.1–840					
ABS116–A152_AB1					
			12.2021		



- | | | |
|---|------------------------------|----------------------------------|
| ① Circular hollow section $\varnothing 48.3 \times 3.2$ | DIN EN 10219-S235JRH | $R_{eH} \geq 320 \text{ N/mm}^2$ |
| ② Circular hollow section $\varnothing 38 \times 4$ | DIN EN 10219-S235JRH | $R_{eH} \geq 320 \text{ N/mm}^2$ |
| ③ U-profile $49 \times 60 \times 3$ | DIN EN 10025-S235JR | $R_{eH} \geq 320 \text{ N/mm}^2$ |
| alternatively: | DIN EN 10025-S355JR | |
| ④ Rectangular hollow section $40 \times 20 \times 2$ | DIN EN 10219-S235JRH | $R_{eH} \geq 320 \text{ N/mm}^2$ |
| ⑤ Gusset plate | DIN EN 10025-S235JR | |
| ⑥ Round $\varnothing 12$ | DIN EN 10025-S235JR | |
| ⑦ Round $\varnothing 5$ | DIN EN 10277: 2008-S355J2C+C | |
| ⑧ Marking | | |
| ⑨ alternatively | | |

galvanised

For details see annex A, page 180

Dimens. [m]	Weight [kg]	Weight with pos.9 [kg]
1.50	21.0	—
2.00	24.6	25.5

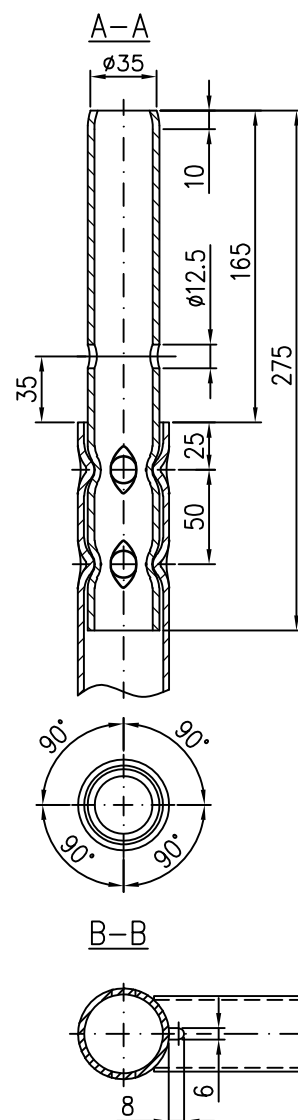
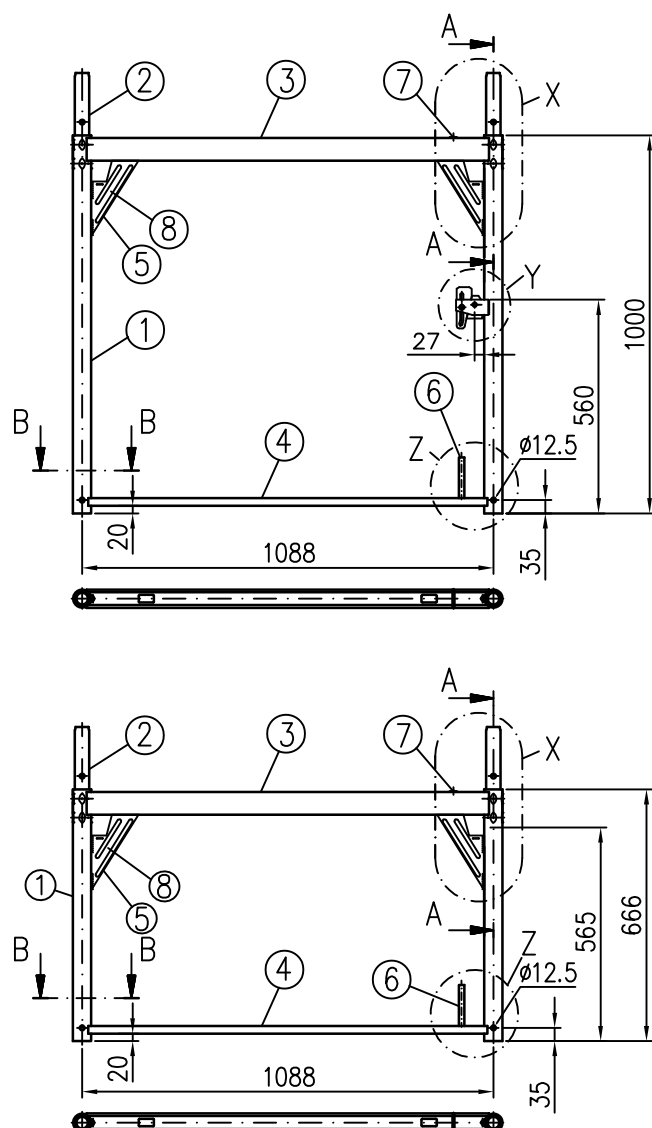
Frame scaffold ALBLITZ 100 S

Vertical frame AF 2.00/1.50 x 1.09 m

A113-A004

12.2021

Annex A,
page 178



- | | | |
|---|------------------------------|----------------------------------|
| ① Circular hollow section $\varnothing 48.3 \times 3.2$ | DIN EN 10219-S235JRH | $R_{eH} \geq 230 \text{ N/mm}^2$ |
| ② Circular hollow section $\varnothing 38 \times 4$ | DIN EN 10219-S235JRH | $R_{eH} \geq 230 \text{ N/mm}^2$ |
| ③ U-profile $49 \times 60 \times 3$ | DIN EN 10025-S235JR | $R_{eH} \geq 230 \text{ N/mm}^2$ |
| alternatively: | DIN EN 10025-S355JR | |
| ④ Rectangular hollow section $40 \times 20 \times 2$ | DIN EN 10219-S235JRH | $R_{eH} \geq 230 \text{ N/mm}^2$ |
| ⑤ Gusset plate | DIN EN 10025-S235JR | |
| ⑥ Round $\varnothing 12$ | DIN EN 10025-S235JR | |
| ⑦ Round $\varnothing 5$ | DIN EN 10277: 2008-S355J2C+C | |
| ⑧ Marking | | |

galvanised

For details see annex A, page 180

Dimens. [m]	Weight [kg]
0.66	14.0
1.00	16.9

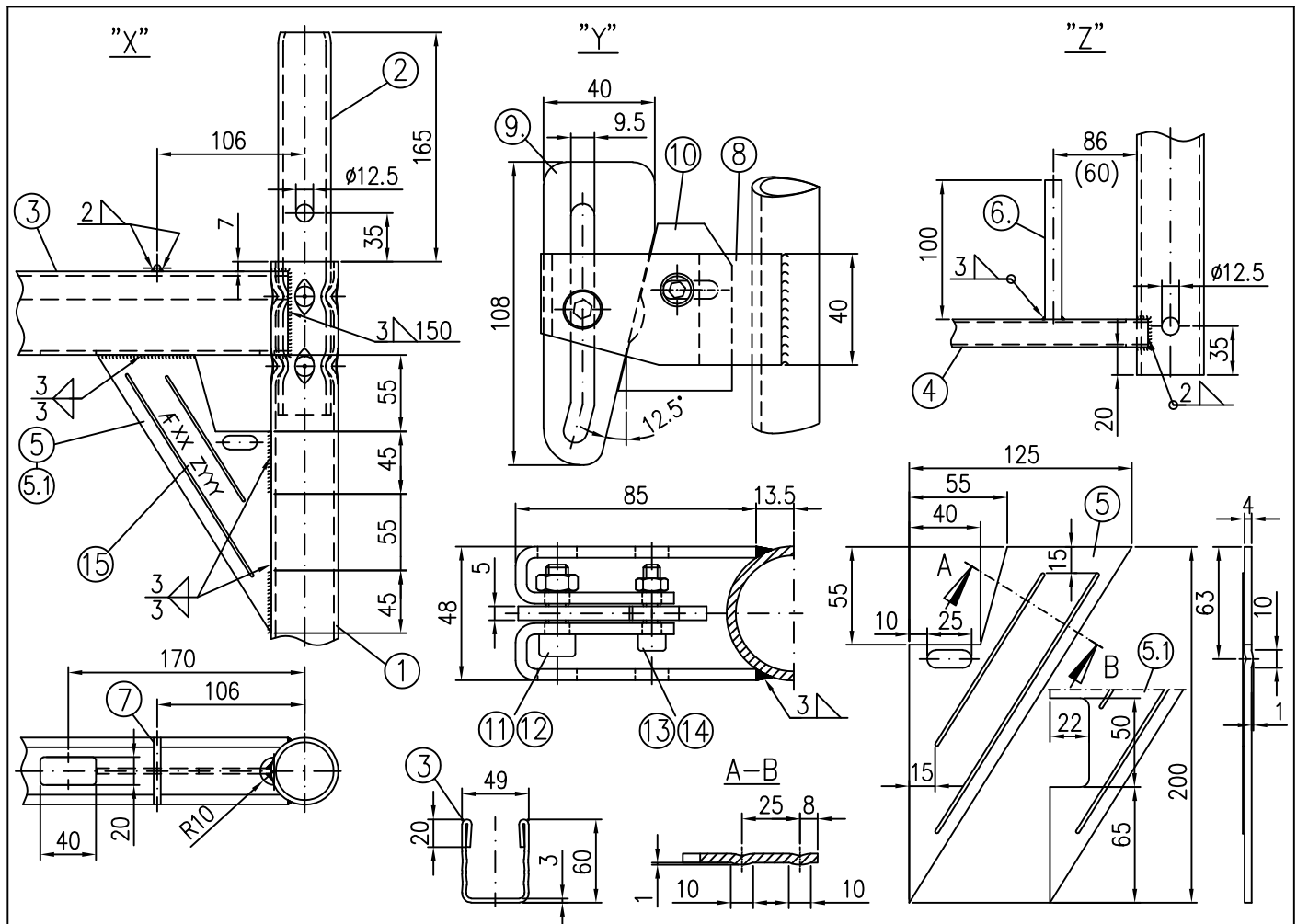
Frame scaffold ALBLITZ 100 S

Vertical frame AF $1.00/0.66 \times 1.09 \text{ m}$

A113-A005

12.2021

Annex A,
page 179



- ① Circular hollow section $\phi 48.3 \times 3.2$
- ② Circular hollow section $\phi 38 \times 4$
- ③ U-profile $49 \times 60 \times 3$
alternatively:
- ④ Rectangular hollow section $40 \times 20 \times 2$
- ⑤ Gusset plate; alternatively: ⑤.1*
- ⑥ Round $\phi 12$
- ⑦ Round $\phi 5$
- ⑧ Steel plate 320×4
- ⑨ Steel plate 80×5
- ⑩ Steel plate 70×5
- ⑪ Cylinder head screw with hexagon socket
- ⑫ Hexagon nut, self-locking
- ⑬ Cylinder head screw with hexagon socket
- ⑭ Hexagon nut, self-locking
- ⑮ Marking

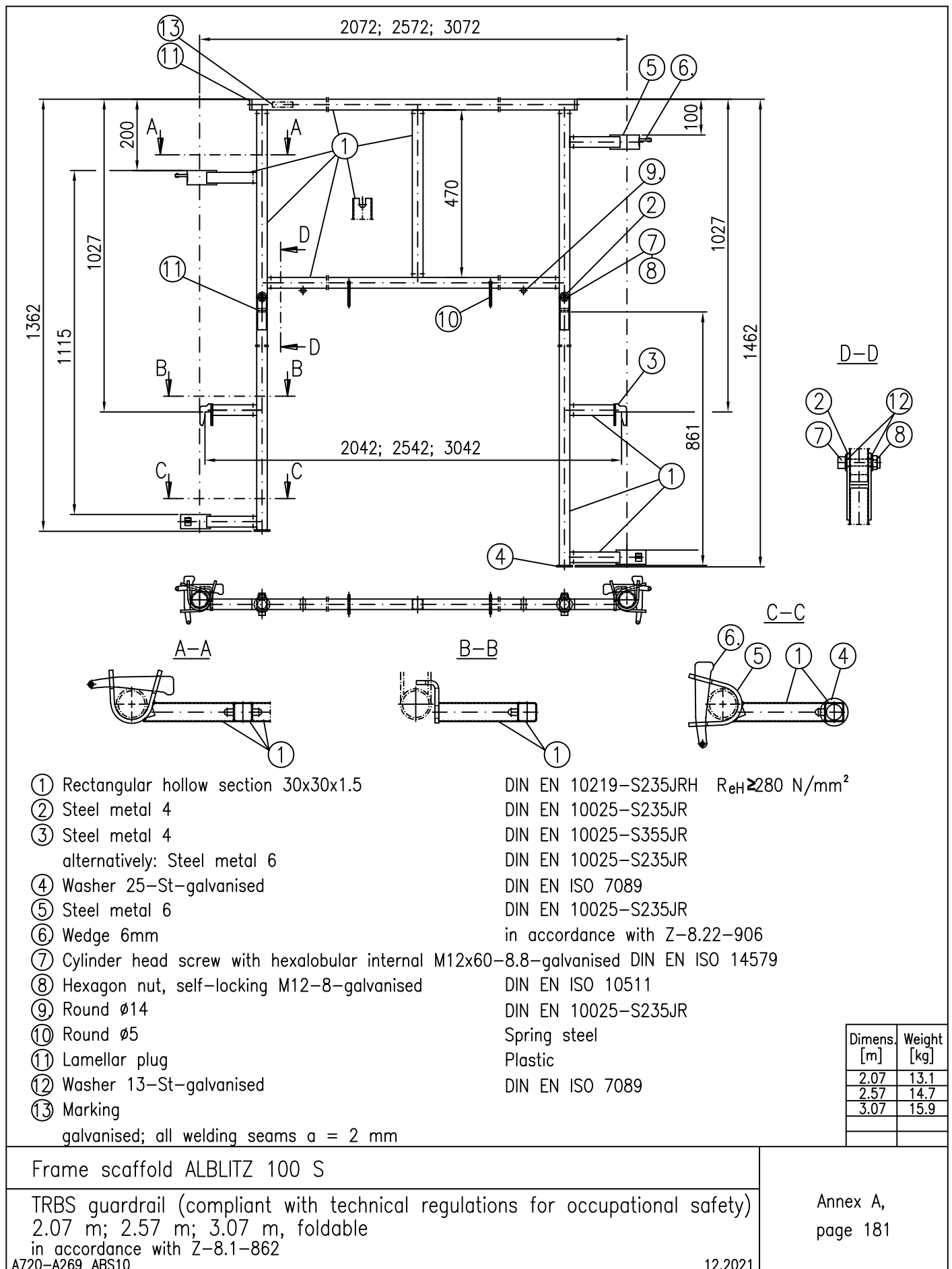
- DIN EN 10219-S235JRH $R_{eH} \geq 320 \text{ N/mm}^2$
- DIN EN 10219-S235JRH $R_{eH} \geq 320 \text{ N/mm}^2$
- DIN EN 10025-S235JR $R_{eH} \geq 320 \text{ N/mm}^2$
- DIN EN 10025-S355JR
- DIN EN 10219-S235JRH $R_{eH} \geq 320 \text{ N/mm}^2$
- DIN EN 10025-S235JR
- DIN EN 10025-S235JR
- DIN EN 10277: 2008-S355J2C+C
- DIN EN 10111-DD13
- DIN EN 10025-S235JR
- DIN EN 10025-S235JR
- DIN EN ISO 4762-M8x25-8.8-galvanised
- DIN EN ISO 10511-M8-8-galvanised
- DIN EN ISO 4762-M6x25-8.8-galvanised
- DIN EN ISO 10511-M6-8-galvanised

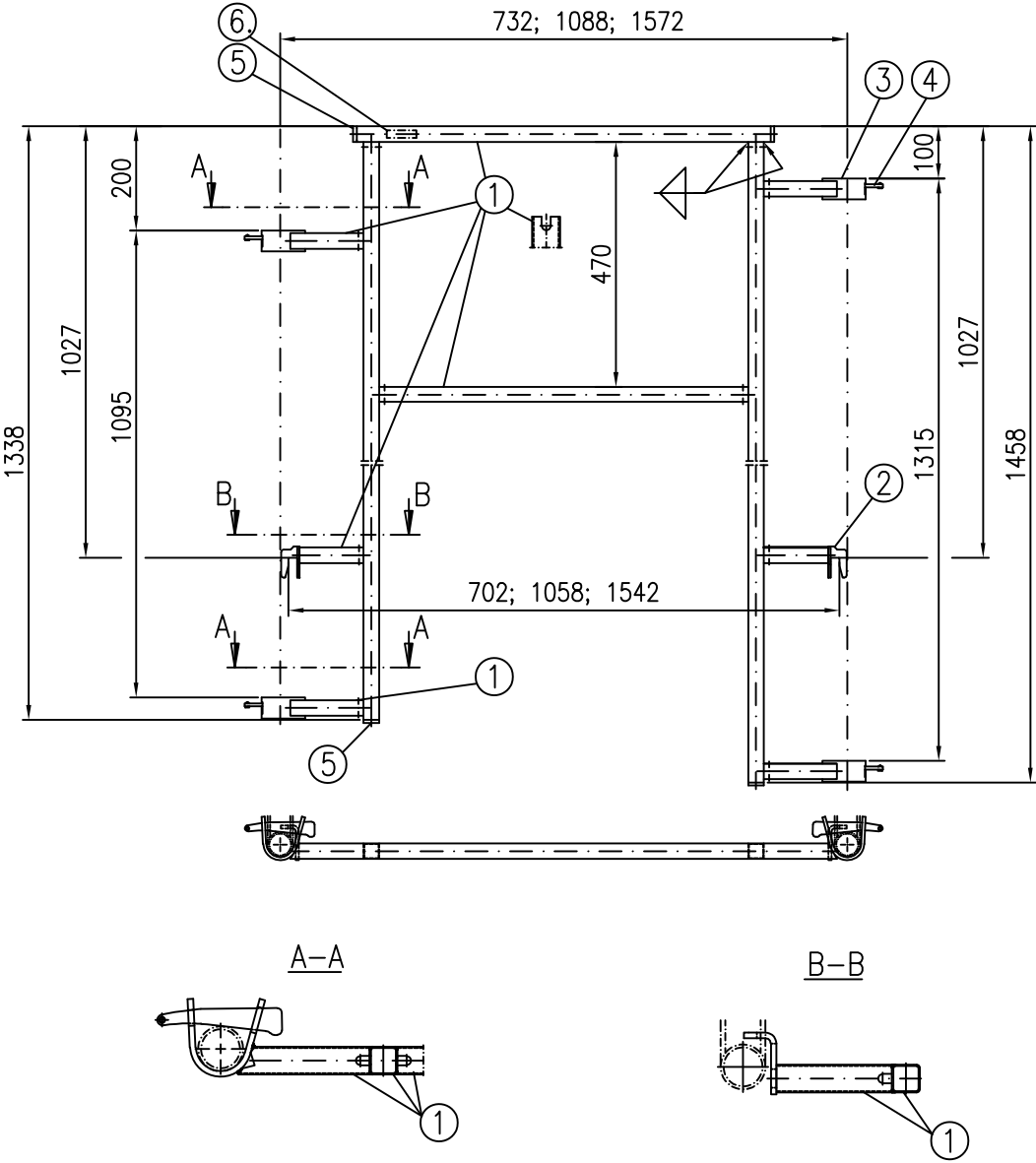
* in accordance with Z-8.1-862

Frame scaffold ALBLITZ 100 S

Detailed view Vertical frame AF

Annex A,
page 180





- ① Rectangular hollow section 30x30x1.5

DIN EN 10219-S235JRH $R_{eH} \geq 280 \text{ N/mm}^2$
- ② Steel metal 4

DIN EN 10025-S355JR

alternatively: Steel metal 6

DIN EN 10025-S235JR
- ③ Steel metal 6

DIN EN 10025-S235JR
- ④ Wedge 6 mm

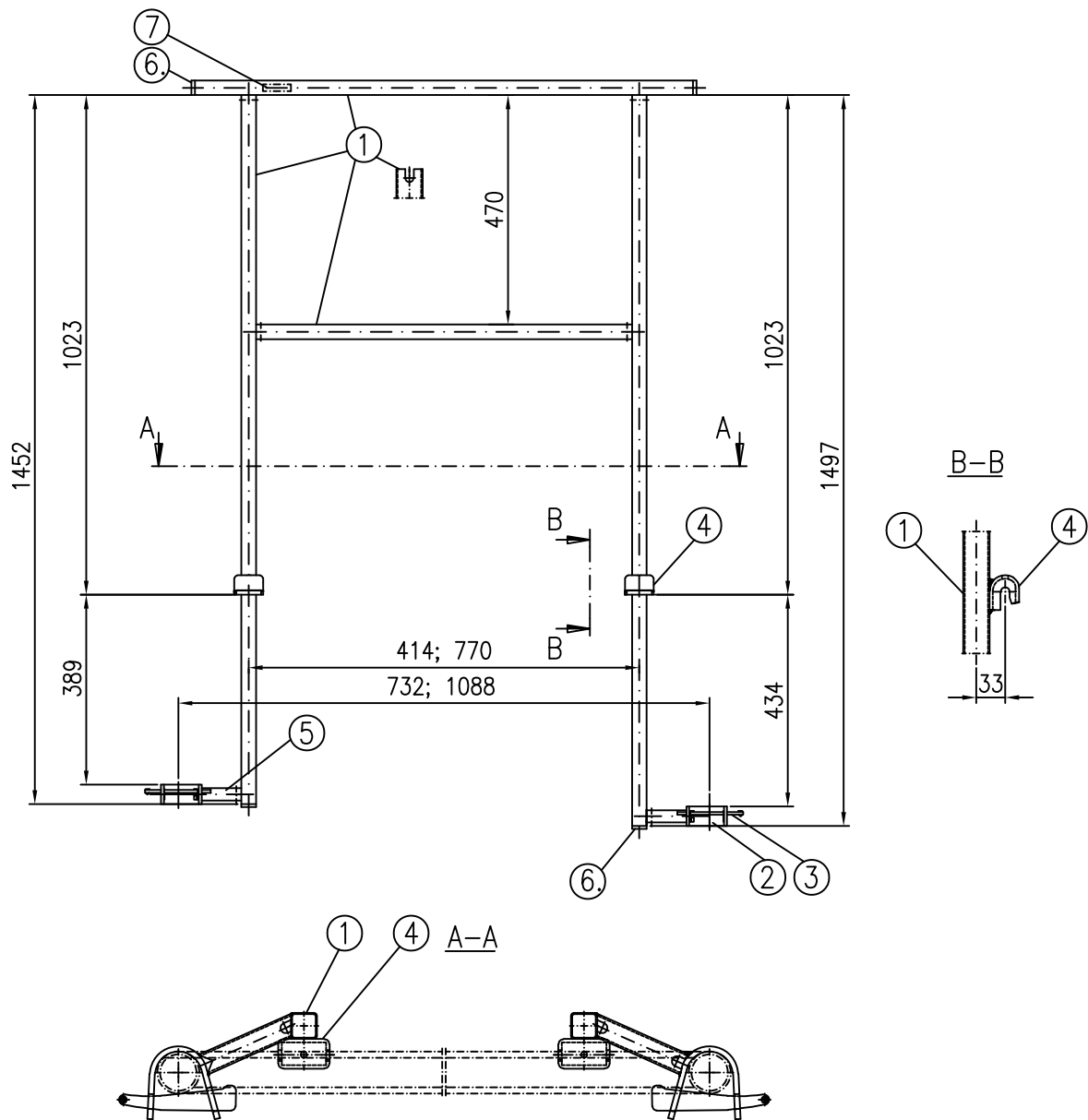
in accordance with Z-8.22-906
- ⑤ Lamellar plug

Plastic
- ⑥ Marking

galvanised; all welding seams a = 2 mm

Dimens. [m]	Weight [kg]
0.73	8.1
1.09	9.5
1.57	10.4

Frame scaffold ALBLITZ 100 S	Annex A, page 182
TRBS guardrail (compliant with technical regulations for occupational safety) 0.73 m; 1.09 m; 1.57 m, rigid in accordance with Z-8.1-862	
A720-A270_ABS10 12.2021	



- ① Rectangular hollow section 30x30x1.5

DIN EN 10219-S235JRH

$R_{eH} \geq 280 \text{ N/mm}^2$
- ② Steel metal 6

DIN EN 10025-S235JR
- ③ Wedge 6 mm

in accordance with Z-8.22-906
- ④ Steel plate 4 mm

DIN EN 10111-DD13

$R_{eH} \geq 240 \text{ N/mm}^2$ $R_m \geq 360 \text{ N/mm}^2$
- ⑤ Rectangular hollow section 25x25x2

DIN EN 10219-S235JRH
- ⑥ Lamellar plug

Plastic
- ⑦ Marking

galvanised; all welding seams a = 2 mm

Dimens. [m]	Weight [kg]
0.73	7.3
1.09	8.3

Frame scaffold ALBLITZ 100 S	Annex A, page 183
TRBS end guardrail (compliant with technical regulations for occupational safety) 0.73 m; 1.09 m in accordance with Z-8.1-862	
A720-A271_ABS10	

12.2021

B.1 General provisions

In its standard system configuration in accordance with the assembly configuration and in accordance with the bay length ℓ , the scaffolding system may be used as a working scaffold of load classes ≤ 4 , 5 or 6 in accordance with DIN EN 12811-1:2004-03, and as a protection scaffold and roof edge protection scaffold in accordance with the regulations stipulated in Section B.2. The use of a protective roof in accordance with section B.11 has been verified in the standard system configuration.

The topmost horizontal level (scaffolding level) must not exceed 24 m above ground level, not including the spindle extension length (bottom edge of end plate up to upper edge of spindle nut). The standard system configuration of the scaffolding system is designed for use on a scaffold level in accordance with the regulations of the DIN EN 12811-1:2004-03 standard, Section 6.2.9.2 in front of a "partially open" facade with an open proportion of no more than 60%, and in front of closed facades. When determining the wind load, a service life factor of $\chi = 0.7$, assuming a maximum service life of 2 years, has been taken into account. Scaffold cladding with nets or tarpaulins has been verified in the standard system configuration. The verifications of net-covered scaffolds apply to scaffolds with aerodynamic force coefficients of the entire structure (net and scaffold) are no greater than $C_{fL,total} = 0.6$ and $C_{fH,total} = 0.2$.

Without any further structural proof, the standard system configuration shall only be used if the loads of the bays will carry do not exceed the respective live loads in accordance with DIN EN 12811-1:2004-03, table 3.

For the standard system configuration of the "ALBLITZ 100 S" scaffolding system, the following designations in accordance with DIN EN 12810-1:2004-03 shall be used subject to the bay length, the load classes, the frames and anchorage used:

- Assembly frame according to Annex A, pages 11 to 16 and 178 / 179:
 - Long scaffold ties (only for basic configuration without brackets)

Scaffold EN 12810 – 4D – SW09/307 – H1 – B – LS
Scaffold EN 12810 – 5D – SW09/257 – H1 – B – LS
Scaffold EN 12810 – 6D – SW09/207 – H1 – B – LS

- Short scaffold ties and V-type anchor

Scaffold EN 12810 – 4D – SW09/307 – H2 – B – LS
Scaffold EN 12810 – 5D – SW09/257 – H2 – B – LS
Scaffold EN 12810 – 6D – SW09/207 – H2 – B – LS

- EXP-assembly frame according to Annex A, pages 169 to 171:
 - Long scaffold ties (only for basic configuration without brackets)

Scaffold EN 12810 – 4D – SW09/307 – H1 – B – LS

- Short scaffold ties and V-type anchor

Scaffold EN 12810 – 4D – SW09/307 – H2 – B – LS

The standard system configuration distinguishes between the following assembly variants (see tables B.5 to B.7):

- Basic configuration (BC):
Facade scaffold consisting of basic components and side protection units only.
- Bracket configuration 1 (BrC1):
Facade scaffold consisting of basic components, side protection components, and brackets 0.36 m on the inner face of the scaffold on each scaffold level.

Scaffolding system "ALBLITZ 100 S"	Annex B, page 1
Standard system configuration - General Instructions	

- **Bracket configuration 2 (BrC2):**

Facade scaffold consisting of basic components, side protection units, brackets 0.36 m on the inner face of the scaffold on each working level, and brackets 0.73 m on the outer face of the scaffold on the topmost working level.

To secure the scaffold against uplifting wind forces, the topmost working levels of buildings with roof pitches $\leq 20^\circ$ shall be connected in a tension-resistant manner up to the next anchored level below the topmost anchored level, e.g. using locking pins as shown in Fig. 1a; on buildings with inner corners, the tension-resistant connection shall be carried out as shown in Fig. 1b.

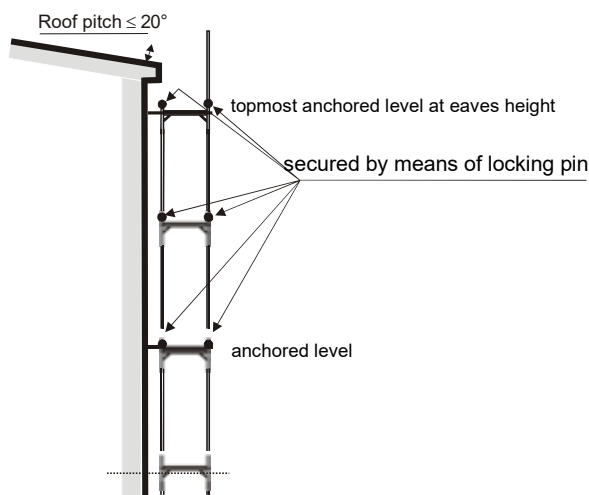


Figure 1a: Example of tension-resistant connection of the scaffold levels in case of uplift wind forces

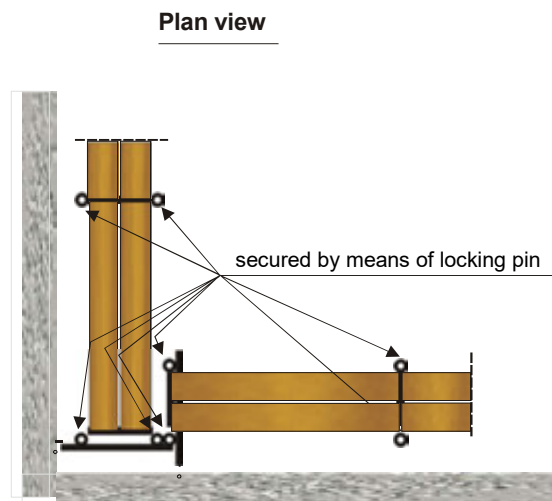


Figure 1b: Example of tension-resistant connection of the working levels in case of uplift wind forces to constructions with inner corners

B.2 Protection scaffold and roof edge protection scaffold

In its standard system configuration, the scaffolding system may be used as a protection scaffold and roof edge protection scaffold with a top fall arresting layer of class FL 1 and as a roof edge protection scaffold with protective walls of class SWD 1 according to DIN 4420:2004-03. Trapdoor decks must not be fitted into brackets.

For the design as roof edge protection scaffold, the protective net posts shall be installed directly onto the assembly frames or the widening brackets 0.73 m and secured by means of locking pins or locking pins and pins with locking pin.

Alternatively, a protective net may be installed in the protective wall. The protective net shall have a mesh size of 100 mm and a rope diameter of 5 mm in accordance with DIN EN 1263-1:2015-03.

B.3 Components

The components intended for use are listed in Table B.1. Additionally, steel tubes according to DIN EN 39:2001-11 of at least type 3 and couplers according to DIN EN 12811-1:2004-03 may also be used as additional bracing measures in accordance with the respective specifications in the system presentations of Annex C.

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B.4 Bracing

According to the load class and the length of the scaffold bays, the following components shall be fitted continuously

- 3 steel decks with a width of 32 cm according to Annex A, pages 137 to 139 or
- 1 deck frame 1.09 m according to Annex A, page 165 or
- 2 solid wood U-frame planks according to Annex A, pages 163 / 164 or
- 1 horizontal frame according to Annex A, page 168

each.

Use trapdoor decks according to section B.9 for internal ladder access bays.

Only use steel U-decks 0.19 m according to annex A, pages 140 and 158 as compensation decks together with brackets.

Decks on each topmost working level shall be secured against accidental lift-off by means of guardrail posts, safety meshguard posts or lift-off preventers.

Install vertical diagonal braces to brace the outer vertical plane. In accordance with the configuration, 1 diagonal brace shall be used for a maximum of 4 or 5 scaffold bays.

Depending on the configuration, additional vertical diagonal braces may have to be installed.

Install a longitudinal ledger (horizontal strut) according to Annex A, page 31 at the level of the lowermost transom in each lowermost scaffold bay, to which a diagonal brace is connected.

In accordance with the configuration, fit, amongst others, diagonal cross braces in the lowermost vertical frames (see Annex C, pages 1 to 14) or longitudinal ledgers (see Annex C, pages 16 to 26).

B.5 Anchoring

Anchorage must be provided using scaffold ties in accordance with annex A, pages 49 and 52 or quick-release anchors in accordance with Annex A, pages 48 and 51.

According to the assembly variation and structural requirements, either install

- short scaffold ties to the inner vertical frame post by means of right-angle couplers (see Annex C, page 35) or
- as anchor pair at an angle of 90° (V-type anchor) only to the inner vertical frame post by means of right-angle couplers (see Annex C, page 36) or
- as long scaffold ties to the inner and outer vertical frame post with one right-angle coupler each or to both gusset plates with a gusset plate coupler each according to Annex A, page 29 (see Annex C, page 35).

In the basic configuration, a quick-release anchor may be used instead of the long scaffold tie. The quick-release anchor is fitted to the inner vertical frame post by means of a right-angle coupler to the transom and supported by the welded-on anchor fork plate (see Annex C, page 35).

The scaffold ties or V-type anchors must be attached in the immediate vicinity of the node points formed by the vertical frames and scaffold decks. On an anchor level, scaffold ties may be fitted up to 30 cm below the node points.

V-type wall ties may not be fitted to the outer frame sections.

The fastening devices to be positioned at the front of buildings in order to resist the anchor forces must be designed to meet at least the anchor forces given in annex C. The characteristic values given therein must be multiplied by the partial safety factor γ_F (generally $\gamma_F = 1.5$) to analyse the transfer of the loads to the anchor points.

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The following anchorage patterns are allowed depending on the scaffold configurations in accordance with Section B.1:

a) 8 m anchorage pattern, offset:

Each vertical frame section is anchored at vertical intervals of 8 m; anchoring points of neighbouring vertical frames must be arranged with a vertical offset of half the spacing. Vertical frame sections at the edge of a scaffolding must be anchored at a vertical interval of 4 m. On the topmost level, each standard must be anchored; every second anchorage may be omitted if the standard is anchored on the anchor level below the topmost level.

b) 4 m anchorage pattern, offset:

Each vertical frame section is anchored at vertical intervals of 4 m; anchoring points of neighbouring vertical frames must be arranged with a vertical offset of half the spacing. Vertical frame sections at the edge of a scaffolding must be anchored at a vertical interval of 2 m. On the topmost level, each standard must be anchored; every second anchorage may be omitted if the standard is anchored on the anchor level below the topmost level.

c) 4 m vertically anchorage pattern, continuous:

Each vertical frame section is anchored at vertical intervals of 4 m. On the topmost working level, each standard must be anchored.

d) 2 m vertically anchorage pattern, continuous:

Each vertical frame section is anchored at vertical intervals of 2 m (each node).

Additional anchorage may be required when using e.g. brackets, protective walls or bridging constructions and for some design configurations.

For the construction in front of buildings, the topmost working level may exceed the topmost anchored level by 2 m. In this case, the standard joints at the topmost working level must be secured by means of locking pins and, in accordance with the configuration, the outer standard of the vertical frame may have to be braced on the topmost anchor level (see Annex C, pages 32 to 34).

B.6 Foundation loads

In accordance with the load classes, it must be possible to resist and transfer the foundation loads given in tables B.2 to B.4 in the supporting surface. The characteristic values given therein must be multiplied by the partial safety factor γ_F (generally $\gamma_F = 1.5$) to analyse the transfer of the loads to the supporting surface.

B.7 Passage frame

At the level of the anchorage plane above the passage frames, every vertical frame section must be anchored. Additionally, bracing of the lowermost vertical frames above the passage frame in the level perpendicular to the facade by means of diagonal braces is required (cf. annex C, page 16 and 17).

When using passage frames, additional measures up to the anchor level above the passage frames (up to $H \approx 4.2 \text{ m}$) are required in accordance with the data listed in annex C, pages 16 and 17.

B.8 Bridging construction

The bridging girders may be used to bridge gate entrances or similar openings when the working levels underneath the bridging construction are omitted. The bridging girders must be anchored at the supporting members and at every fourth part of the member at the height of the upper chord.

The bridging construction variants shall be constructed in accordance with the following annexes:

- Bridging girder 4.14 m: according to Annex C, pages 24 to 26
- Bridging girder 5.14 m: according to Annex C, pages 21 to 23
- Bridging girder 6.14 m: according to Annex C, pages 18 to 20

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B.9 Internal ladder / add-on ladder access / add-on stairway access

The use of a stairway access with parallel stair arrangement in accordance with annex C, pages 27 and 28 or 31 is recommended.

Alternatively, an add-on ladder access in accordance with annex C, pages 29 to 31 or an internal ladder access can be used, taking into account the following specifications.

Taking into consideration its use in the fall arrest level for scaffolds of load class ≤ 3 with all trapdoor deck versions or for scaffolds of load class 4 with steel U-trapdoor decks $l \leq 2.57$ m (Annex A, pages 141, 142 and 159), an internal ladder may be used alternatively, whereby a steel deck 0.32 m must be installed additionally to the steel U-trapdoor decks (see Annex C, page 31).

B.10 Corner formation

Outer corners are to be designed in accordance with annex C, page 38.

For inner corners, observe the regulations for securing against uplifting wind forces in section B.1.

B.11 Protective roof

The protective roof may only be used on the outer face of a scaffold at the second scaffolding level.

Each vertical frame section at the height of the protective roof and at the height of the bracing point must be anchored (see Annex C, page 15). Decks are to be installed up to the face of the building.

B.12 Widening bracket

On the inner face of the scaffolding 0.36 m widening brackets may be used at all scaffolding levels; on the outer face of the scaffold, 0.36 m or 0.73 m widening brackets may be installed on the topmost scaffolding level only.

The widening bracket 0.73 m must be supported by means of a diagonal cross brace 1.77 m according to annex A, page 72 (see annex C, page 37).

Additional measures according to annex C, page 37 are required for scaffolds with widening brackets and a with protective wall.

Install gap covers between the main and the bracket deck for the inner brackets and gap cover or U-telescopic cover plates for the outer brackets.

B.13 Topmost working level not anchored

For the construction in front of buildings, the topmost working level may exceed the topmost anchored level by 2 m (topmost working level not anchored), see annex C, pages 32 to 34. In this case, all joints of the standards on the three topmost levels must be secured by means of locking pins.

In this intermediate state, the topmost working level must not be higher than $H = 22$ m (plus spindle extension length) within the scope of the verified system configuration.

Cladding must not exceed the topmost anchoring level.

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Table B.1: Components of the standard system configuration

Designation	Annex A, page
Foot plate	2
Base jack 60	3
Base jack 80, reinforced	4
Base jack 150, reinforced	6
Base jack 40	7
Wedged swivel coupler with spindle	8
Locking pin red Ø 11 mm	9
Locking pin Ø 9 mm	10
Lightweight assembly frame 2.00 x 1.09 m, steel	11
Lightweight assembly frame 1.50 - 1.00 – 0.66 x 1.09 m, steel	12
Assembly frame 2.00 x 1.09 m, steel	13
Assembly frame 1.50 - 1.00 – 0.66 x 1.09m, steel	14
Assembly frame 2.00 x 1.09 m, steel (discontinued design)	15
Assembly frame 1.50 – 1.00 – 0.66 x 1.09 m, steel (discontinued design)	16
Lightweight assembly frame 2.00 x 0.73 m, steel *)	17
Lightweight assembly frame 1.50 – 1.00 – 0.66 x 0.73 m, steel *)	18
Assembly frame 2.00 x 0.73 m, steel (discontinued design) *)	19
Assembly frame 1.50 – 1.00 – 0.66 x 0.73 m (discontinued design) *)	20
Lightweight passage frame 2.20 x 1.50 m	26
Passage frame 2.20 x 1.50 m	27
Locking guardrail wedge housing	28
Gusset plate coupler	29
Guardrail coupler with wedge housing	30
Horizontal strut 1.57 – 3.07 m	31
I-guardrail with turning bolt 1.57 – 3.07 m ***)	32
I-guardrail 1.57 – 3.07 m ***)	33
Guardrail 0.73 – 3.07 m	34
Double guardrail 1.57 – 3.07 m, steel	35
Double guardrail 2.07 – 2.57 m, steel (discontinued design)	36
Single and double guardrail (discontinued design)	37
Aluminium double guardrail 1.57 – 3.07 m	38
End guardrail 1.09 m	39
End guardrail 0.73 m	40
Double end guardrail 1.09 m	41
Double end guardrail 1.09 m (discontinued design)	42
Double end guardrail 0.73 m	43
Double end guardrail 0.73 m (discontinued design)	44
End guardrails 1.09 m, single and double	45
Diagonal brace 2.80; 3.20; 3.60 m	46
Diagonal brace for 2.07; 2.57 and 3.07 m (discontinued design)	47
Quick release anchor 0.69 m	48

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Annex B, page 6

Table B.1: (continued)

Designation	Annex A, page
Scaffold tie 0.38 – 1.75 m	49
Anchor coupler	50
Quick release anchor 0.65 m (discontinued design)	51
Scaffold tie 0.30 – 2.00 m (discontinued design)	52
Bracket 0.36 m	56
Bracket 0.36 m (discontinued design)	57
Bracket 0.73 m	58
Bracket 0.73 m – reinforced	59
Bracket 0.36 m without tube connector	61
Deck lift-off prevention 0.36 – 0.73 m	68
Deck lift-off prevention 1.09 m	69
Universal U-deck lift-off preventer	70
Diagonal cross brace 1.95 m	71
Diagonal cross brace 1.77 m	72
Lightweight guardrail post 1.09 m	73
Lightweight end guardrail post 1.09 m	74
Lightweight guardrail post 0.73 m	75
Lightweight end guardrail post 0.73 m	76
Guardrail post, single	77
Protective roof bracket 1.30 m	78
Protective roof support 2.10 m	79
Safety meshguard post 1.09 m	80
Safety meshguard post 1.09 m (discontinued design)	81
2-pin coupler	82
Safety meshguard post 0.36; 0.50; 0.73 m T15	83
Adapter for safety meshguard post	84
Safety meshguard post 0.36; 0.50; 0.73 m	85
Safety meshguard post 0.73 m (discontinued design)	86
Side safety meshguard 1.57 – 3.07 m	87
Safety meshguard 1.57 – 3.07 m (discontinued design)	88
Toeboard 0.73 – 3.07 m	89
End toeboard 1.09 m	90
End toeboard 0.36 – 0.73 m	91
Halfcoupler with toeboard pin	92
Storey ladder 7 rungs T19 / T15	93
Storey ladder 7 rungs	94
Aluminium single ladder for scaffolds with 10; 14; 17; 20 rungs	95
Lightweight lattice girder 4.14 m with tube connector	97

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Annex B, page 7

Table B.1: (continued)

Designation	Annex A, page
Lightweight lattice girder 5.14 m; 6.14 m with tube connector	98
Lattice girder 4.14 m with tube connector	99
Lattice girder 5.14 m; 6.14 m with tube connector	100
Lattice girder coupler	101
U-lattice girder ledger 1.09 m	102
Lightweight U-starter transom 1.09 m	106
U-starter transom 0.73 m	107
Aluminium U-platform stairway 2.57; 3.07 x 2.00 x 0.64 m	114
Aluminium U-platform stairway 2.57; 3.07 m (discontinued design)	116
U-Komfort stairway 2.57; 3.07 x 2,00 x 0.64 m	117
Stair guardrail 2.57; 3.07 m	118
Inner guardrail for stairway	119
Inner guardrail for stairway (discontinued design)	120
Stairway guardrail 1.0 x 0.5 m	121
Keder rail 2000, aluminium	122
Keder rail, aluminium (discontinued design)	123
Rail holder with halfcoupler	124
Keder slotted screw with nut	125
Keder tube brace 2.07 – 3.07 m	126
Lightweight U-deck 0.73 – 3.07 x 0.32 m, steel; design: spot-welded / hand welded	137
U-deck T4 0.73 – 3.07 x 0.32 m, steel; design: spot-welded / hand welded	138
U-deck 0.73 – 3.07 x 0.32 m, steel; design: spot-welded / hand welded	139
U-deck 0.73 – 3.07 x 0.19 m, steel	140
U-trapdoor deck 2.07 x 0.64 m, steel	141
U-trapdoor deck 2.57 x 0.64 m, steel	142
U-robust trapdoor deck 2.07 – 3.07 x 0.61 m **)	143
U-robust trapdoor deck with ladder 2.57 – 3.07 x 0.61 m **)	144
Aluminium U-trapdoor deck 1.57 – 3.07 x 0.61 m **)	145
Aluminium U-trapdoor deck with ladder, 2.57 – 3.07 x 0.61 m **)	146
U-XTRA-N-trapdoor deck 2.07 – 3.07 x 0.61 m **)	147
U-XTRA-N-trapdoor deck with ladder, 2.57 – 3.07 x 0.61 m **)	148
Aluminium U-trapdoor deck 2.07 x 0.61 m, trapdoor offset **)	149
Aluminium U-trapdoor deck 2.57 - 3.07 x 0.61 m with ladder, trapdoor offset **)	150
Gap cover 0.73 – 3.07 x 0.32 m, steel	151
U-gap cover 0.73 – 3.07 m, steel	152
U-Aluminium gap cover 1.09 – 3.07 m	153
U-Aluminium gap cover 0.35; 0.60 m	154

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Annex B, page 8

Table B.1: (continued)

Designation	Annex A, page
U-gap deck 0.73 – 3.07 m, telescopic	155
U-deck for compensation bay 0.19; 0.32; 0.61 x 0.50 m	156
U-corner deck, rigid with toeboard, steel	157
U-deck 0.73 – 3.07 x 0.19 m, steel (discontinued design)	158
U-trapdoor deck 2.07 – 2.57 x 0.64 m, steel Z-8.1-16.2 (trapdoor opens sideways)	159
U-trapdoor deck 2,57 - 3,07 x 0,64 m, steel	160
U-trapdoor stackable combi-deck 2.07 - 3.07 x 0.61 m **)	161
U-trapdoor stackable combi-deck 2.57 - 3.07 x 0.61 m, with ladder **)	162
U-frame deck 1.57 – 2.57 x 0.50 m, solid wood	163
U-frame deck 2.57 x 0.52 m, solid wood	164
Deck frame 1.57 – 3.07 x 1.09 m	165
Wooden plank 1.57 – 3.07 x 0.44 m	166
Locking plate	167
Horizontal frame 1.57 – 3.07 x 1.00 m	168
Lightweight EXP-assembly frame 2.00 x 1.09 m, steel	169
EXP-assembly frame 2.00 x 1.09 m, steel	170
EXP-assembly frame 2.00 x 1.09 m (discontinued design)	171
EXP-diagonal brace 2.80; 3.20; 3.60 m	172
EXP guardrail 1.57 – 3.07 m	173
EXP-double end guardrail 1.09 m	174
EXP-guardrail post 1.09 m	175
EXP-guardrail post, single	176
EXP-end toeboard 1.09 m	177
Vertical frame AF 2.00/1.50 x 1.09 m	178
Vertical frame AF 1.00/0.66 x 1.09 m	179
TRBS guardrail (compliant with technical regulations for occupational safety) 2.07 m; 2.57 m; 3.07 m, foldable ***)	181
TRBS guardrail (compliant with technical regulations for occupational safety) 0.73 m; 1.09 m; 1.57 m, rigid ***)	182
TRBS end guardrail (compliant with technical regulations for occupational safety) 0.73 m; 1.09 m ***)	183
*) Use within the scope of the standard system configuration only for the add-on access bay **) as inner ladder access only up to load class 3 ***) When using these guardrails consistently install I-guardrails in accordance with Z-8.1-16.2 or TRBS-guardrails according to the working level in accordance with Z-8.1-862.	

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Annex B, page 9

Table B.2: Foundation loads for configurations L = 3.07 m

Annex C, page	Overview *)	Load class	Protective wall	Foundation loads [kN]		
				inner face	outer face	access
1	BC unclad	4	without	16.2	20.3	---
			with	16.1	20.9	---
2	BrC1 unclad	4	without	26.3	19.7	---
			with	26.0	20.4	---
3	BrC2 unclad	4	without	25.7	27.8	---
			with	26.4	28.3	---
5	BC net	4	without	16.3	20.0	---
			with	16.3	20.5	---
6 / 4	BrC2 net	4	without	26.3	27.3	---
			with	26.4	27.9	---
7	BrC2 tarpaulin	4	without	27.0	27.3	---
			with	27.1	28.0	---
15	Protective roof BC / BrC1 / BrC2	4	without / with	24.8	29.6	---
16	Passage frame BC	4		22.5	14.9	---
17	Passage frame BrC1 / BrC2	4		34.8	19.2	---
18	Bridging construction L = 6.14 m BC unclad	4		24.5	29.0	---
19	Bridging construction L = 6.14 m BrC1 / BrC2 unclad	4		38.2	40.9	---
20	Bridging construction L = 6.14 m BC / BrC1/ BrC2 tarpaulin	4		40.1	42.4	---
27	Stairway access with parallel stair arrangement BC / BrC1 / BrC2	4		see above		9.2
29	Ladder access BC / BrC1 / BrC2	4				9.2
32	Topmost level not anchored BC / BrC1	4	without			---

*) BC = Basic configuration / BrC1 = Bracket configuration 1 / BrC2 = Bracket configuration 2

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Table B.3: Foundation loads for configurations L = 2.57 m, load class ≤ 5

Annex C, page	Overview *)	Load class	Protective wall	Foundation loads [kN]		
				inner face	outer face	access
9	BC unclad	≤ 5	without	18.4	22.2	---
			with	17.4	22.8	---
10	BrC1 unclad	≤ 5	without	28.5	22.0	---
			with	28.5	22.8	---
8	BrC2 unclad	4	without	22.8	25.9	---
			with	22.8	26.3	---
12	BC net	≤ 5	without	17.9	21.3	---
			with	17.9	21.8	---
13 / 11	BrC1 net	≤ 5	without	27.8	21.0	---
			with	27.0	21.6	---
14	BrC1 tarpaulin	≤ 5	without	27.9	21.0	---
			with	27.4	21.2	---
15	Protective roof BC / BrC1	≤ 5	without / with	27.7	20.7	---
16	Passage frame BC	≤ 5		24.2	15.5	---
17	Passage frame BrC1	≤ 5		34.3	15.6	---
21	Bridging construction L = 5.14 m BC unclad	≤ 5		29.0	29.6	---
22	Bridging construction L = 5.14 m BrC1 unclad	≤ 5		39.5	40.3	---
23	Bridging construction L = 5.14 m BC / BrC1 tarpaulin	≤ 5		41.8	37.9	---
27	Stairway access with parallel stair arrangement BC / BrC1	≤ 5		see above		9.2
29	Ladder access BC / BrC1	≤ 5				9.2
33	Topmost level not anchored BC / BrC1	≤ 5	without			---

*) BC = Basic configuration / BrC1 = Bracket configuration 1 / BrC2 = Bracket configuration 2

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Table B.4: Foundation loads for configurations L = 2.07 m, load class ≤ 6

Annex C, page	Overview *)	Load class	Protective wall	Foundation loads [kN]		
				inner face	outer face	access
9	BC unclad	≤ 6	without	17.7	22.0	---
			with	17.4	22.7	---
10	BrC1 unclad	≤ 6	without	27.8	19.4	---
			with	27.8	19.9	---
8	BrC2 unclad	4	without	19.1	22.4	---
			with	19.1	23.0	---
12	BC net	≤ 6	without	17.3	20.8	---
			with	17.2	21.3	---
13 / 11	BrC1 net	≤ 6	without	27.0	20.7	---
			with	26.4	21.3	---
14	BrC1 tarpaulin	≤ 6	without	27.2	21.1	---
			with	27.1	21.6	---
15	Protective roof BC / BrC1	≤ 6	without / with	27.6	19.7	---
16	Passage frame BC	≤ 6		23.5	14.8	---
17	Passage frame BrC1	≤ 6		33.6	14.9	---
21	Bridging construction L = 4.14 m BC unclad	≤ 6		30.6	28.5	---
22	Bridging construction L = 4.14 m BrC1 unclad	≤ 6		39.6	39.5	---
23	Bridging construction L = 4.14 m BC / BrC1 tarpaulin	≤ 6		41.0	39.1	---
34	Topmost level not anchored BC / BrC1	≤ 6	without	see above		---
*) BC = Basic configuration / BrC1 = Bracket configuration 1 / BrC2 = Bracket configuration 2						

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Table B.5: Assembly variants of the standard system configuration –
load class 4 without additional components

Load class ≤ 4									
Configuration	Basic configuration (BC)			Bracket configuration 1 (BrC1)			Bracket configuration 2 (BrC2)		
	$l \leq$ 2.07 m	$l =$ 2.57 m	$l =$ 3.07 m	$l \leq$ 2.07 m	$l =$ 2.57 m	$l =$ 3.07 m	$l \leq$ 2.07 m	$l =$ 2.57 m	$l =$ 3.07 m
partially open / closed facade									
unclad									
with or without protective wall, long scaffold tie or quick- release anchor, maximum spindle height 41.5 cm	Annex C, page 1	Annex C, page 1	Annex C, page 1	-	-	-	-	-	-
with or without protective wall, V-type anchor and short scaffold tie, maximum spindle height 25 cm	Annex C, page 2	Annex C, page 2	Annex C, page 2	Annex C, page 2	Annex C, page 2	Annex C, page 2	Annex C, page 8	Annex C, page 8	Annex C, page 3
Cladding with nets									
with or without protective wall, V-type anchor and short scaffold tie, maximum spindle height 25 cm	Annex C, page 4	Annex C, page 4	Annex C, page 4	Annex C, page 4	Annex C, page 4	Annex C, page 4	Annex C, page 4	Annex C, page 4	Annex C, page 4
Cladding with tarpaulins									
with or without protective wall, V-type anchor and short scaffold tie, maximum spindle height 41.5 cm	Annex C, page 7	Annex C, page 7	Annex C, page 7	Annex C, page 7	Annex C, page 7	Annex C, page 7	Annex C, page 7	Annex C, page 7	Annex C, page 7
closed facade									
Cladding with nets									
with or without protective wall, long scaffold tie or quick- release anchor, maximum spindle height 41.5 cm	Annex C, page 5	Annex C, page 5	Annex C, page 5	-	-	-	-	-	-
with or without protective wall, V-type anchor and short scaffold tie, maximum spindle height 25 cm	Annex C, page 6	Annex C, page 6	Annex C, page 6	Annex C, page 6	Annex C, page 6	Annex C, page 6	Annex C, page 6	Annex C, page 6	Annex C, page 6
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Annex B, page 13									

Table B.6:

Assembly variants of the standard system configuration –
load classes 5 and 6 without additional components

Configuration	Load class ≤ 5 (NOT for EXP-frames)			Load class ≤ 6 (NOT for EXP-frames)	
	Basic configuration (BC)		Bracket configuration 1 (BrC1)	Basic configuration (BC)	Bracket configuration 1 (BrC1)
	$l \leq 2.07 \text{ m}$	$l = 2.57 \text{ m}$	$l \leq 2.07 \text{ m}$	$l \leq 2.07 \text{ m}$	$l \leq 2.07 \text{ m}$
partially open / closed facade					
unclad					
with or without protective wall, long scaffold tie or quick-release anchor, maximum spindle height 41.5 cm	Annex C, page 9		-	Annex C, page 9	-
with or without protective wall, V-type anchor and short scaffold tie, maximum spindle height 25 cm	Annex C, page 10	Annex C, page 10	Annex C, page 10	Annex C, page 10	Annex C, page 10
Cladding with nets					
with or without protective wall, V-type anchor and short scaffold tie, maximum spindle height 30 cm	Annex C, page 11	Annex C, page 11	Annex C, page 11	Annex C, page 11	Annex C, page 11
Cladding with tarpaulins					
with or without protective wall, V-type anchor and short scaffold tie, maximum spindle height 41.5 cm	Annex C, page 14	Annex C, page 14	Annex C, page 14	Annex C, page 14	Annex C, page 14
closed facade					
Cladding with nets					
with or without protective wall, long scaffold tie or quick-release anchor, maximum spindle height 41.5 cm	Annex C, page 12	Annex C, page 12	-	Annex C, page 12	-
with or without protective wall, V-type anchor and short scaffold tie, maximum spindle height 30 cm	Annex C, page 13	Annex C, page 13	Annex C, page 13	Annex C, page 13	Annex C, page 13

Scaffolding system "ALBLITZ 100 S"

Standard system configuration - General Instructions

Annex B, page 14

Table B.7: Additional measures for variants of the standard system configuration with additional components

Load classes according to tables B.5 and B.6											
Configuration	Basic configuration (BC)			Bracket configuration 1 (BrC1)			Bracket configuration 2 (BrC2)				
	$\ell \leq 2.07 \text{ m}$	$\ell = 2.57 \text{ m}$	$\ell = 3.07 \text{ m}$	$\ell \leq 2.07 \text{ m}$	$\ell = 2.57 \text{ m}$	$\ell = 3.07 \text{ m}$	$\ell \leq 2.07 \text{ m}$	$\ell = 2.57 \text{ m}$	$\ell = 3.07 \text{ m}$		
partially open / closed facade											
unclad											
for protective roof, spindle height in accordance with the respective configuration	Annex C, page 15	Annex C, page 15	Annex C, page 15	Annex C, page 15	Annex C, page 15	Annex C, page 15	Annex C, page 15	Annex C, page 15	Annex C, page 15	Annex C, page 15	
for passage frame, maximum spindle height 41.5 cm	Annex C, page 16	Annex C, page 16	Annex C, page 16	-	-	-	-	-	-	-	
for passage frame, maximum spindle height 25 cm	Annex C, page 17	Annex C, page 17	Annex C, page 17	Annex C, page 17	Annex C, page 17	Annex C, page 17	Annex C, page 17	Annex C, page 17	Annex C, page 17	Annex C, page 17	
for bridging girder, maximum spindle height 41.5 cm	Annex C, page 24	Annex C, page 21	Annex C, page 18	-	-	-	-	-	-	-	
for bridging girder, maximum spindle height 25 cm	Annex C, page 25	Annex C, page 22	Annex C, page 19	Annex C, page 25	Annex C, page 22	Annex C, page 19	Annex C, page 25	Annex C, page 22	Annex C, page 19	Annex C, page 19	
Topmost working level not anchored with or without protective wall, short scaffold ties	Annex C, page 32, 33 and 34	Annex C, page 32 and 33	Annex C, page 32	Annex C, page 32, 33 and 34	Annex C, page 32 and 33	Annex C, page 32	-	-	-	-	
Stairway access with parallel stair arrangement, access bay $\ell \leq 2.57 \text{ m}$, maximum spindle height of the access: 34.4 cm	Annex C, page 27	Annex C, page 27	Annex C, page 27	Annex C, page 27	Annex C, page 27	Annex C, page 27	Annex C, page 27	Annex C, page 27	Annex C, page 27	Annex C, page 27	
add-on ladder access, maximum spindle height of the access: 34.4 cm	Annex C, page 29	Annex C, page 29	Annex C, page 29	Annex C, page 29	Annex C, page 29	Annex C, page 29	Annex C, page 29	Annex C, page 29	Annex C, page 29	Annex C, page 29	
Cladding with nets or tarpaulins											
for bridging girder, maximum spindle height 25 cm	Annex C, page 26	Annex C, page 23	Annex C, page 20	Annex C, page 26	Annex C, page 23	Annex C, page 20	Annex C, page 26	Annex C, page 23	Annex C, page 20	Annex C, page 20	

Scaffolding system "ALBLITZ 100 S"

Standard system configuration - General Instructions

Annex B, page 15

Table B.8: Overview assembly instructions and details

Content	Annex C, page
3D layout of stairway access with parallel stair arrangement	28
3D layout of add-on ladder access	30
Assembling the stairway or ladder access	31
Anchorage (scaffold ties long/short; quick-release anchor)	35
Anchorage (V-type anchor)	36
Bracket configuration 2 (BrC2)	37
Corner formation	38

Scaffolding system "ALBLITZ 100 S"

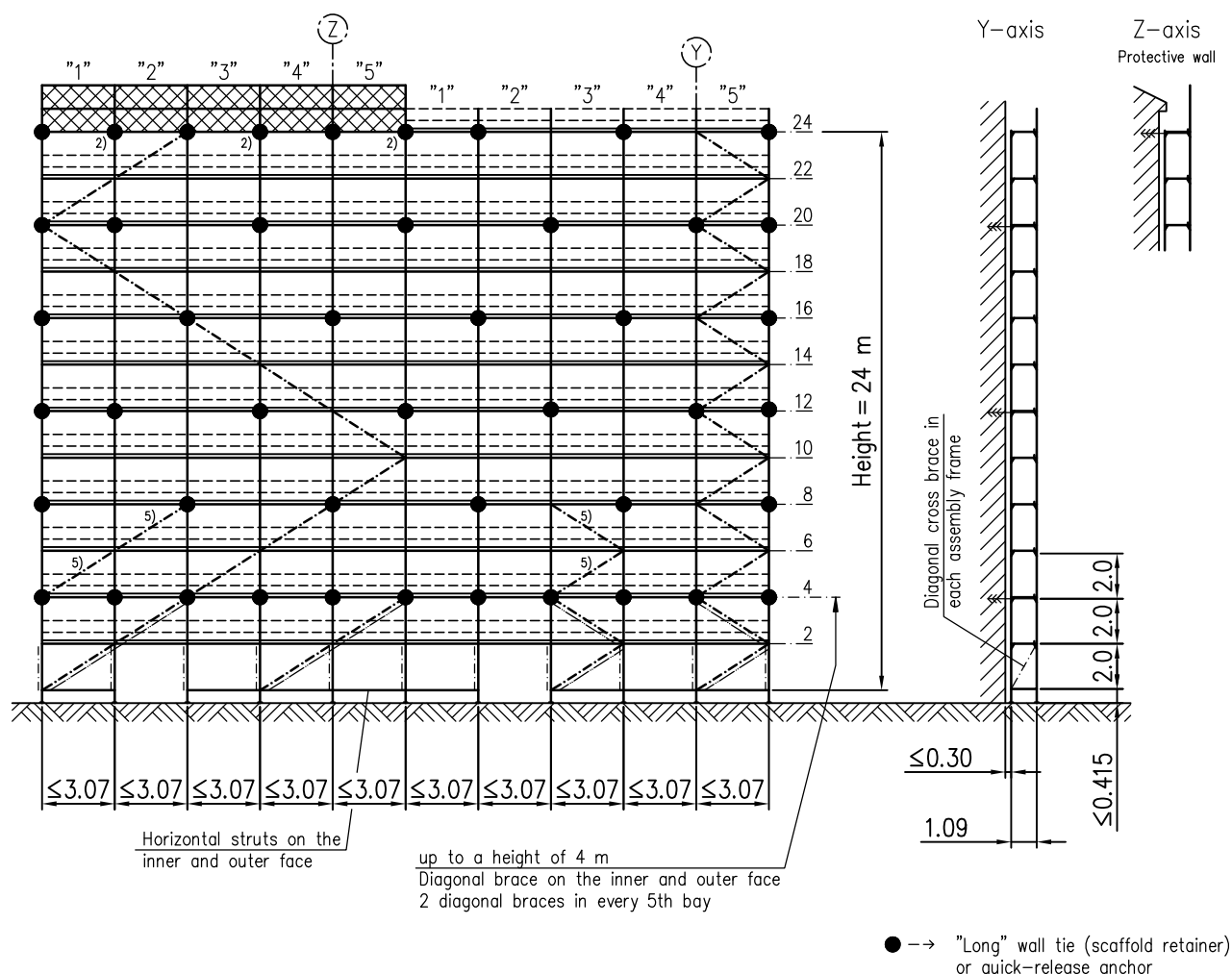
Standard system configuration - General Instructions

Annex B, page 16

Load class 4, bay length ≤ 3.07 m

Basic configuration

- with or without protective wall



Anchor forces [kN]							
Facade	At right angles to the facade				Parallel to the facade		Maximum inclined load
	anchor configuration shown		topmost anchor level for protective wall		Long wall tie (scaffold retainer)	V-type anchor	
	Compression	Tension	Compression	Tension			
partially open	4.6		3.7	3.5	2.4	—	—
closed	1.8						

Bracing: 5) Additional vertical diagonal braces

Anchoring: 2) At the topmost anchor level, **each** single node must be anchored.

Unclad scaffolding / Basic configuration
Load class 4, bay length ≤ 3.07 m

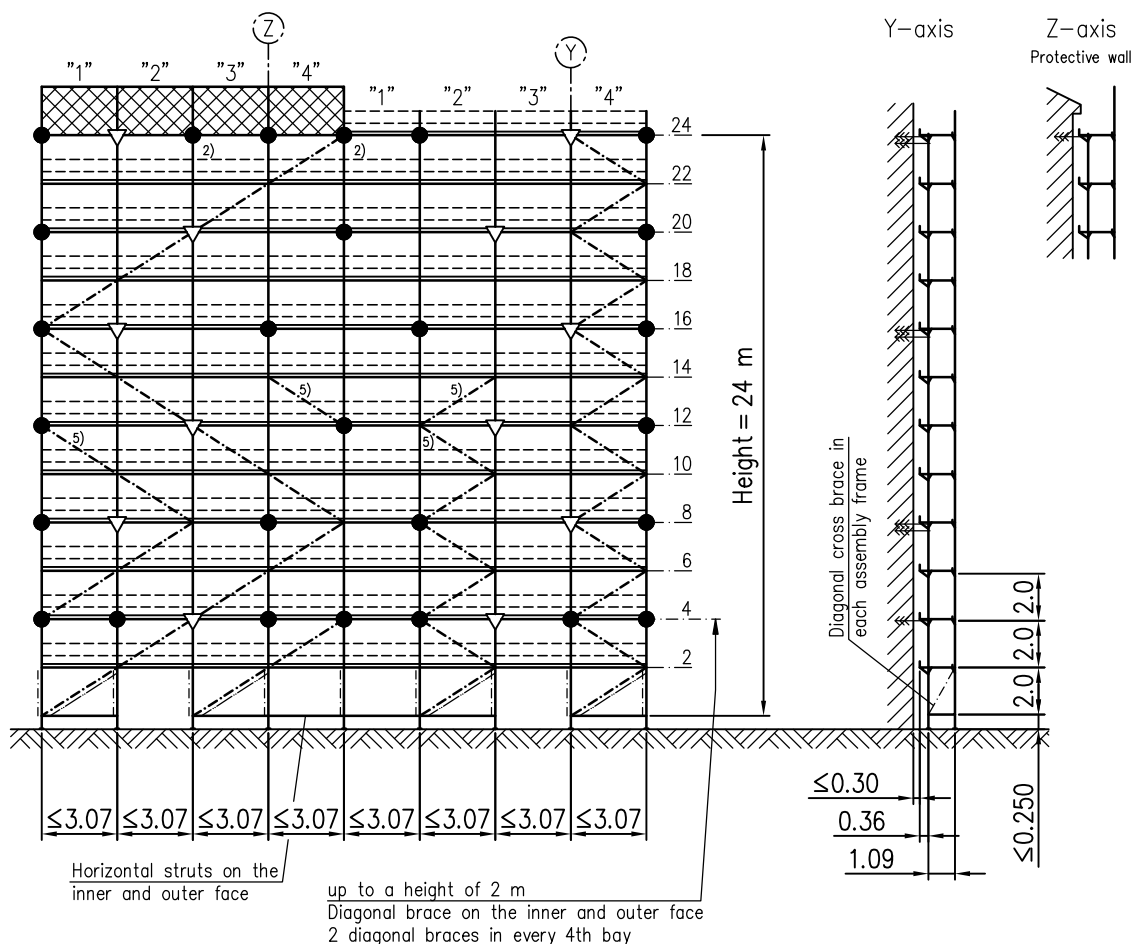
Annex C,
page 1

Partially open facade / Closed facade
Unclad scaffolding

Load class 4, bay length ≤ 3.07 m

Bracket configuration 1 (with inner brackets)

–with or without protective wall



- → "Short" wall tie (scaffold retainer)
(only fitted to inner standard)
- ▽ → V-type anchor
(1 per 4 bays on each anchor level)

Anchor forces [kN]

Anchor forces [kN]							
Facade	At right angles to the facade				Parallel to the facade		Maximum inclined load
	anchor configuration shown		topmost anchor level for protective wall				
	Com- pression	Tension	Com- pression	Tension	Short wall tie (scaffold retainer)	V-type anchor	
partially open	4.5		3.7	3.5	0.1	6.5	4.6
closed	1.8						

Additional reinforcement measures for EXP frames: (Tilting pin frame)

Bracing: 5) Additional vertical diagonal braces

Additional reinforcement measures for variants with protective wall:

Anchoring: 2) At the topmost anchor level, **each** single node must be anchored.

Frame scaffold ALBLITZ 100 S

Unclad scaffolding / Bracket configuration 1
Load class 4, bay length ≤ 3.07 m

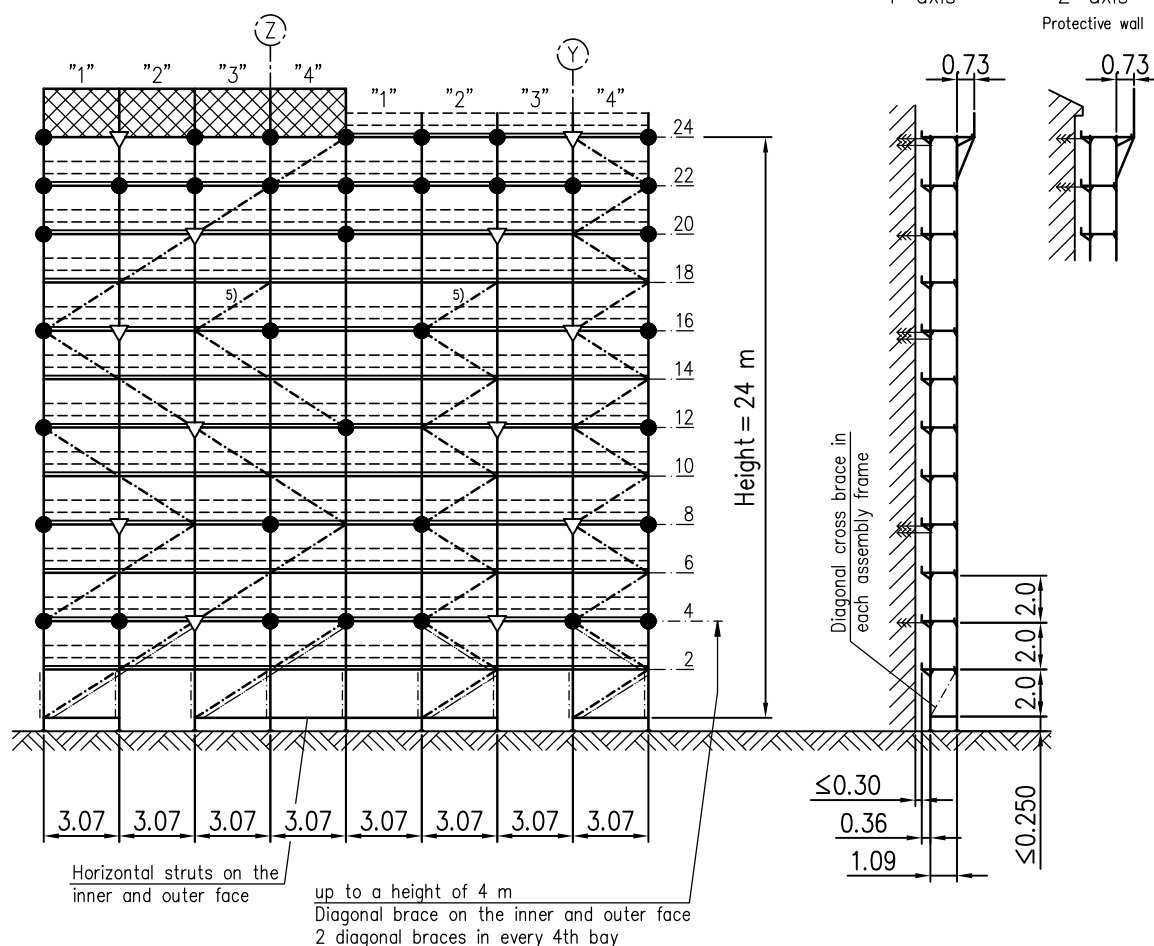
Annex C,
page 2

Load class 4, bay length 3.07 m

Unclad scaffolding

Bracket configuration 2 (with inner and outer brackets)

- with or without protective wall



- → "Short" wall tie (scaffold retainer)
(only fitted to inner standard)
- ▽ → V-type anchor
(1 per 4 bays on each anchor level)

Anchor forces [kN]							
Facade	At right angles to the facade				Parallel to the facade		Maximum inclined load
	anchor configuration shown		topmost anchor level for protective wall		Short wall tie (scaffold retainer)	V-type anchor	
	Compression	Tension	Compression	Tension			
partially open	4.2		3.7	3.5	0.1	6.4	4.6
closed	1.6						

Additional reinforcement measures for EXP frames: (Tilting pin frame)
Bracing: 5) Additional vertical diagonal braces

Frame scaffold ALBLITZ 100 S

Unclad scaffolding / Bracket configuration 2
Load class 4, bay length 3.07 m

Annex C,
page 3

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12.2021

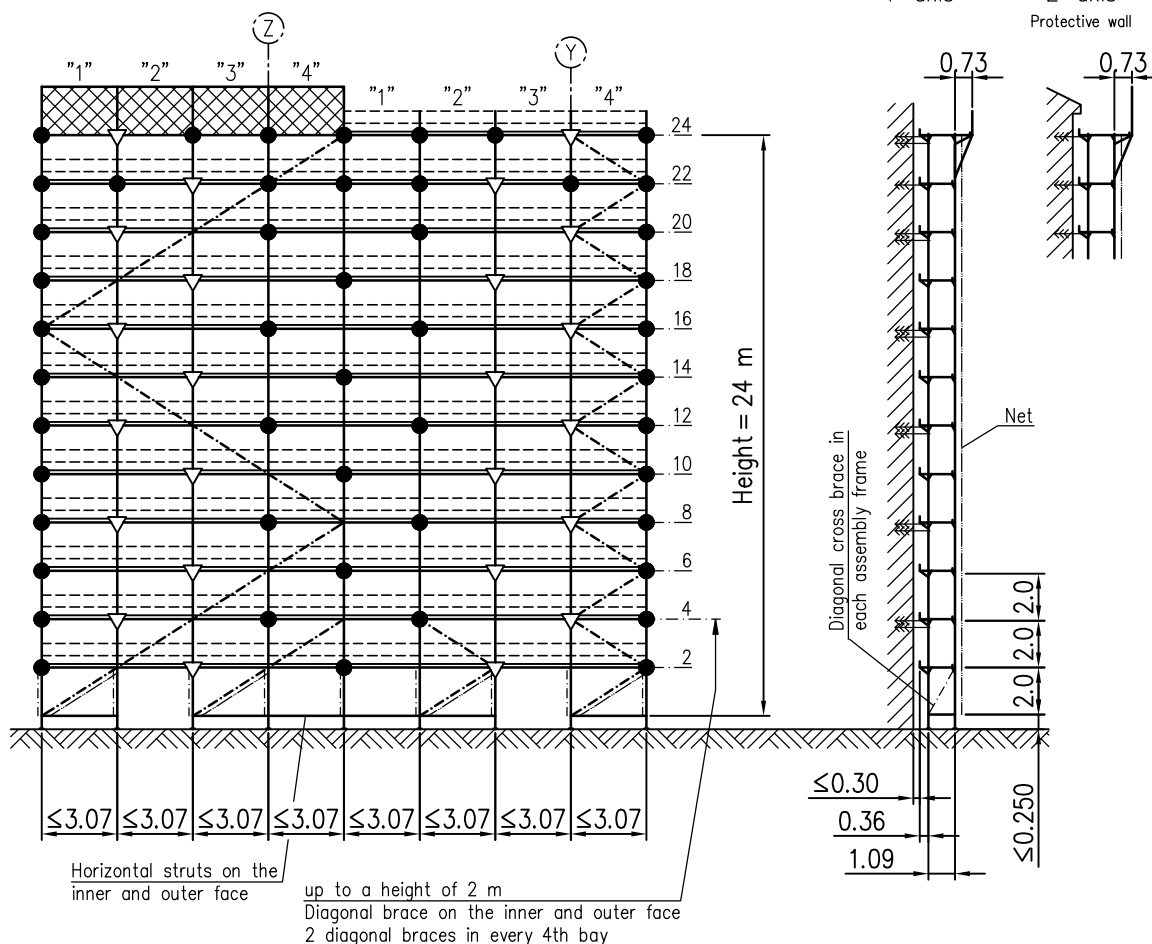
Partially open facade / Closed facade

Scaffold covered with nets ($C_{fL} \leq 0.6$)

Bracket configuration 2 (with inner and outer brackets)

–with or without protective wall

Load class 4, bay length ≤ 3.07 m



Facade	Anchor forces [kN]					
	At right angles to the facade				Parallel to the facade	
	anchor configuration shown		topmost anchor level for protective wall		Maximum inclined load	
	Com- pression	Tension	Com- pression	Tension	Short wall tie (scaffold retainer)	V-type anchor
partially open	4.6	3.5	4.6	0.1	4.9	3.4

Frame scaffold ALBLITZ 100 S

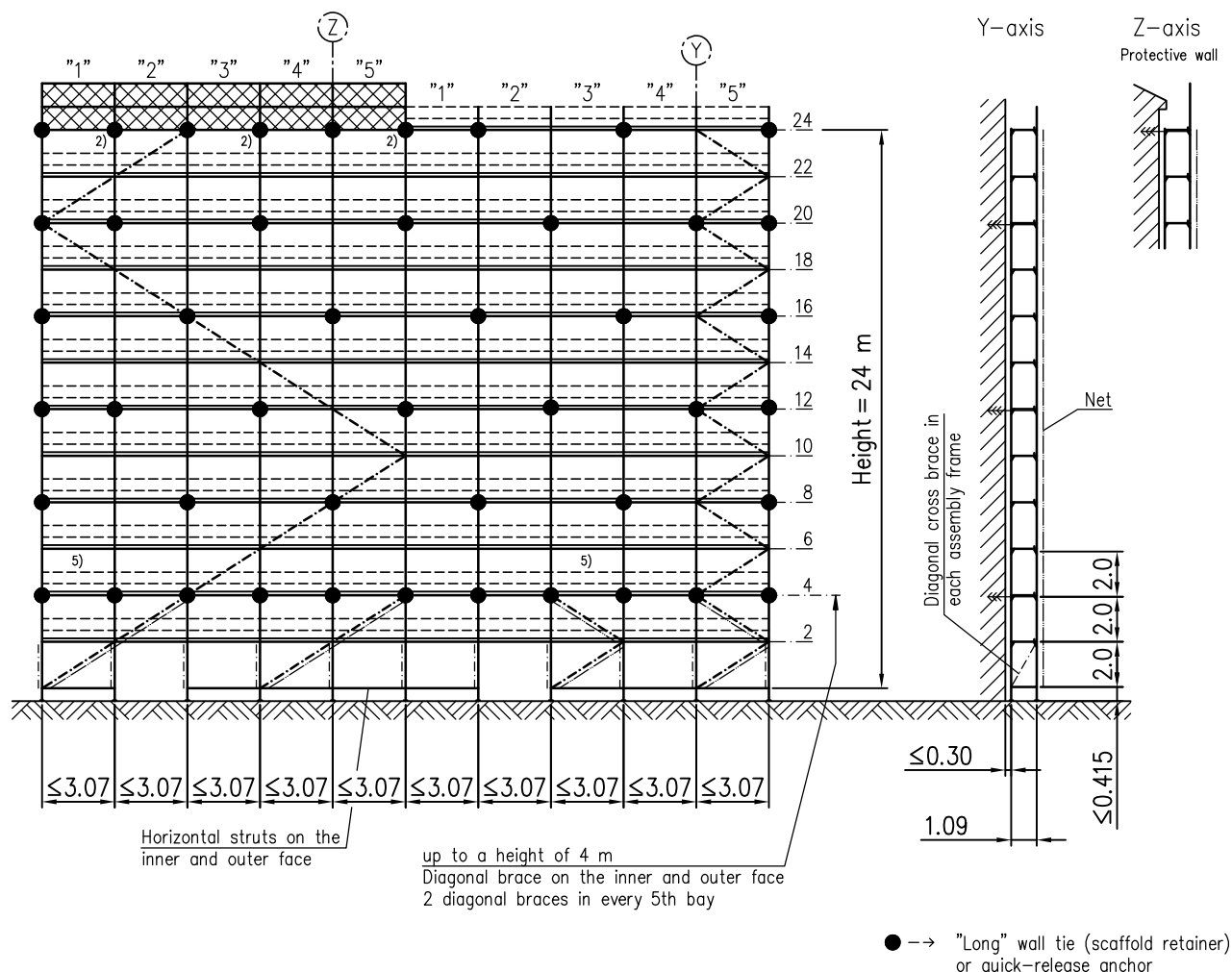
Scaffold covered with nets / Bracket configuration 2
Load class 4, bay length ≤ 3.07 m

Annex C,
page 4

Load class 4, bay length ≤ 3.07 m

Basic configuration

- with or without protective wall



Bracing: 5) Additional vertical diagonal braces

Anchoring: 2) At the topmost anchor level, **each** single node must be anchored.

Anchor forces [kN]							
Facade	At right angles to the facade				Parallel to the facade		Maximum inclined load
	anchor configuration shown		topmost anchor level for protective wall		Long wall tie (scaffold retainer)	V-type anchor	
	Compression	Tension	Compression	Tension			
closed	3.0		3.5		4.6	1.1	—

Scaffold covered with nets / Basic configuration
Load class 4, bay length ≤ 3.07 m

Annex C,
page 5

12.2021

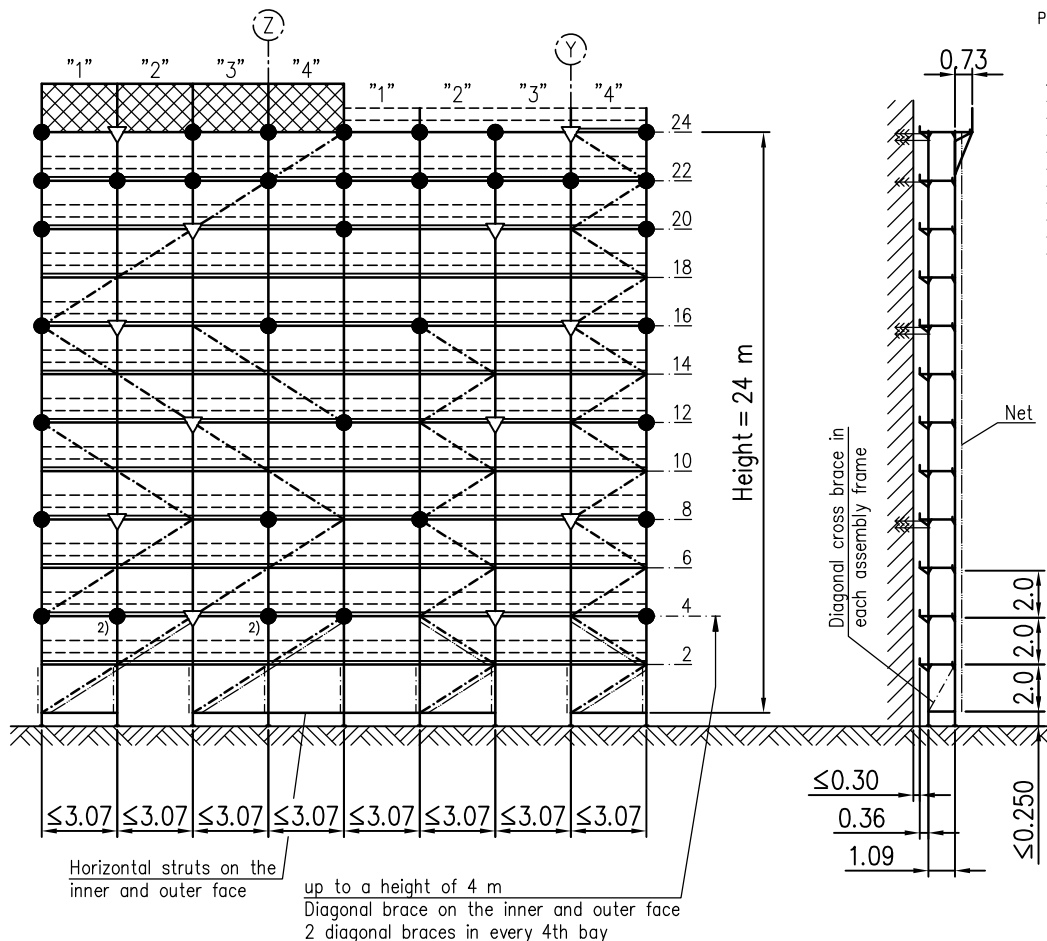
Closed facade

Scaffold covered with nets ($C_{fL} \leq 0.6$)

Bracket configuration 2 (with inner and outer brackets)

–with or without protective wall

Load class 4, bay length ≤ 3.07 m



- → "Short" wall tie (scaffold retainer)
(only fitted to inner standard)
- ▽ → V-type anchor
(1 per 4 bays on each anchor level)

Facade	Anchor forces [kN]					
	At right angles to the facade				Parallel to the facade	
	anchor configuration shown		topmost anchor level for protective wall		Maximum inclined load	
	Com- pression	Tension	Com- pression	Tension	Short wall tie (scaffold retainer)	V-type anchor
closed	3.4	3.5	4.6	0.1	4.4	3.1

Additional reinforcement measures for variants with protective wall:
Anchoring: 2) At a height of 4 m **each** single node must be anchored.

Frame scaffold ALBLITZ 100 S

Scaffold covered with nets / Bracket configuration 2
Load class 4, bay length ≤ 3.07 m

Annex C,
page 6

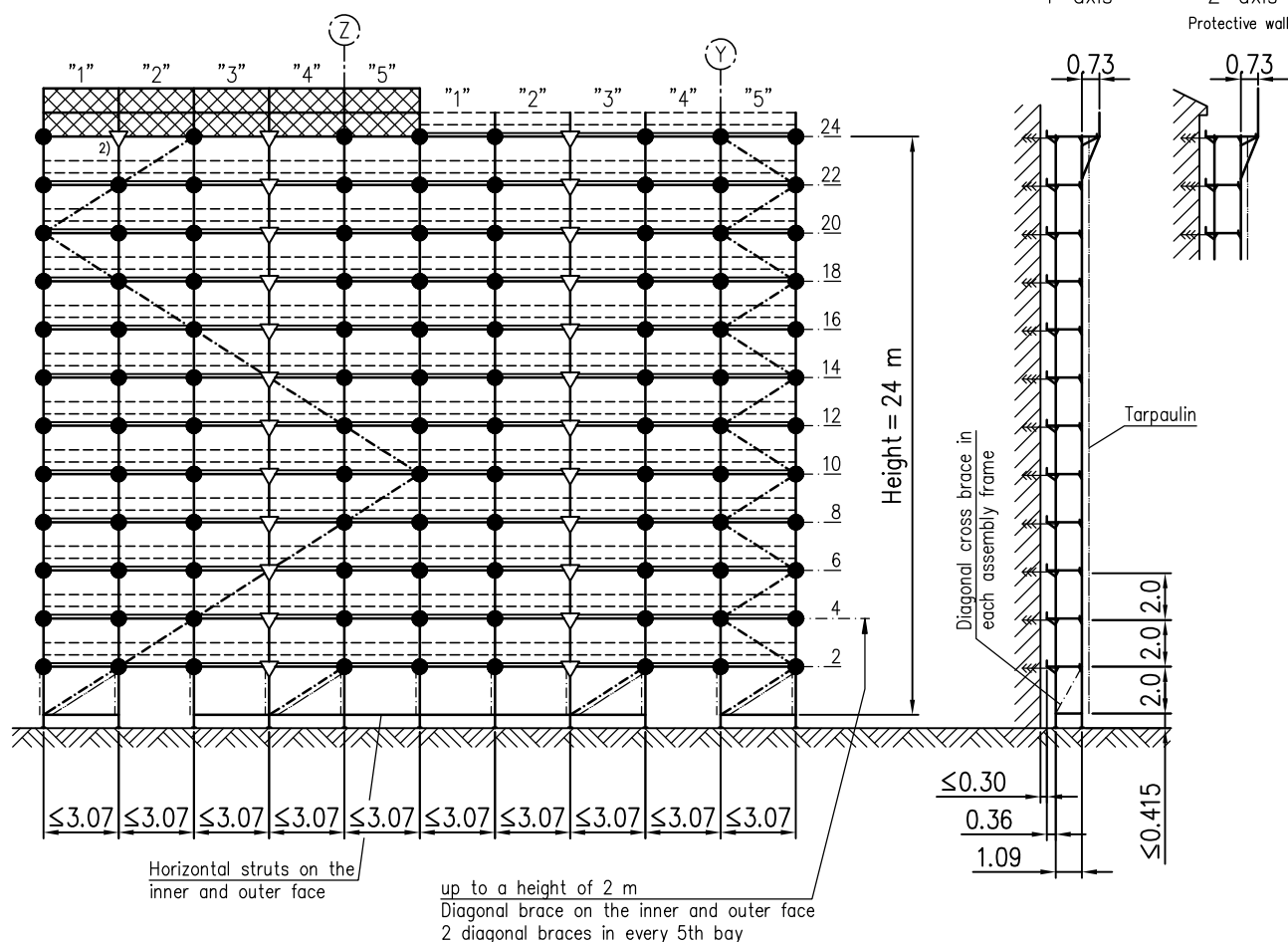
Partially open facade / Closed facade

Scaffold covered with tarpaulins

Bracket configuration 2 (with inner and outer brackets)

–with or without protective wall

Load class 4, bay length ≤ 3.07 m



- → "Short" wall tie (scaffold retainer)
(only fitted to inner standard)
- ▽ → V-type anchor
(1 per 4 bays on each anchor level)

Anchor forces [kN]						
Facade	At right angles to the facade				Parallel to the facade	
	anchor configuration shown		topmost anchor level for protective wall		Short wall tie (scaffold retainer)	Maximum inclined load
	Com-pression	Tension	Com-pression	Tension		
partially open	6.9	6.6	5.7	6.1	0.1	4.9
closed	5.3	2.9				

Additional reinforcement measures for variants with protective wall:

Anchoring: 2) One additional V-type anchor at a height of 24 m in every fifth bay.

Frame scaffold ALBLITZ 100 S

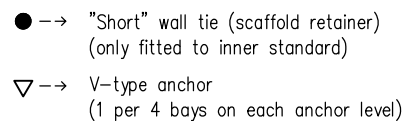
Scaffold covered with tarpaulins / Bracket configuration 2
Load class 4, bay length ≤ 3.07 m

Annex C,
page 7

Load class 4, bay length ≤ 2.57 m

Bracket configuration 2 (with inner and outer brackets)

- with or without protective wall



Anchor forces [kN]							
Facade	At right angles to the facade			Parallel to the facade		Maximum inclined load	
	anchor configuration shown		topmost anchor level for protective wall				
	Com- pression	Tension	Com- pression	Tension	Short wall tie (scaffold retainer)	V-type anchor	V-type anchor
Load class 4, bay length 2.57 m							
partially open	3.7		3.1	2.7	0.1	6.4	4.5
closed	1.3						
Load class 4, bay length 2.07 m							
partially open	3.2		2.6	2.3	0.1	6.5	4.6
closed	1.2						

1) Anchorage may be omitted in front of closed facades.

Bracing: 5) Additional vertical diagonal braces

Unclad scaffolding / Bracket configuration 2
Load class 4, bay length ≤ 2.57 m

Annex C,
page 8

Partially open facade / Closed facade

Unclad scaffolding

Basic configuration

–with or without protective wall

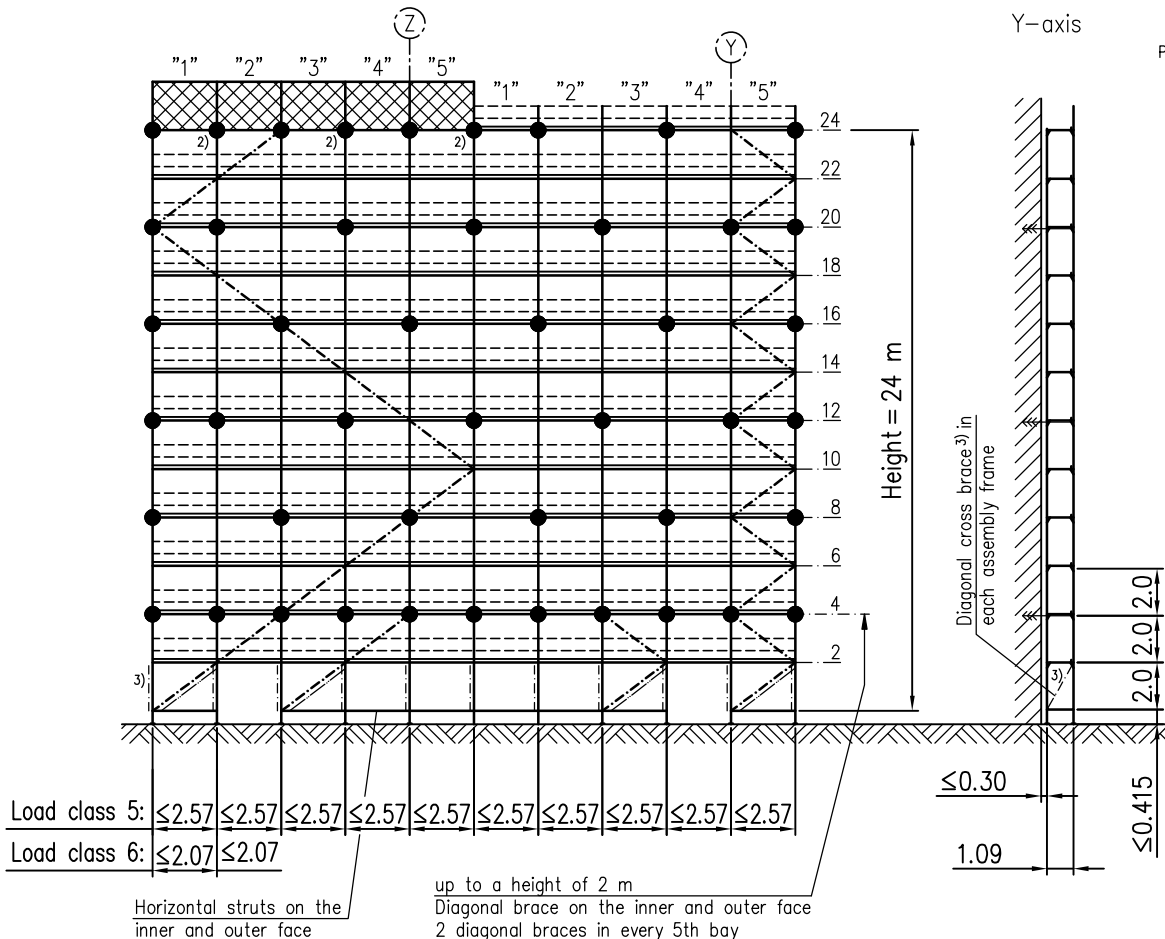
Load class 5, bay length ≤ 2.57 m

Load class 6, bay length ≤ 2.07 m

Not applicable to EXP-frames
(Tilting pin frame)

Y-axis

Z-axis
Protective wall



Anchor forces [kN]

Facade	At right angles to the facade		Parallel to the facade		Maximum inclined load	
	anchor configuration shown		topmost anchor level for protective wall			
	Com- pression	Tension	Com- pression	Tension	Long wall tie (scaffold retainer)	V-type anchor
Load class 5, bay length 2.57 m						
partially open	4.0		3.1	2.7	1.6	–
closed	1.5					
Load class 6, bay length 2.07 m						
partially open	3.4		2.6	2.3	1.6	–
closed	1.3					

3) Diagonal cross braces may be omitted in front of closed facades.

Additional reinforcement measures for EXP frames:

Anchoring: 2) At the topmost anchor level, **each** single node must be anchored.

Frame scaffold ALBLITZ 100 S

Unclad scaffolding / Basic configuration
Load class 5 (≤ 2.57 m) ; 6 (≤ 2.07 m)

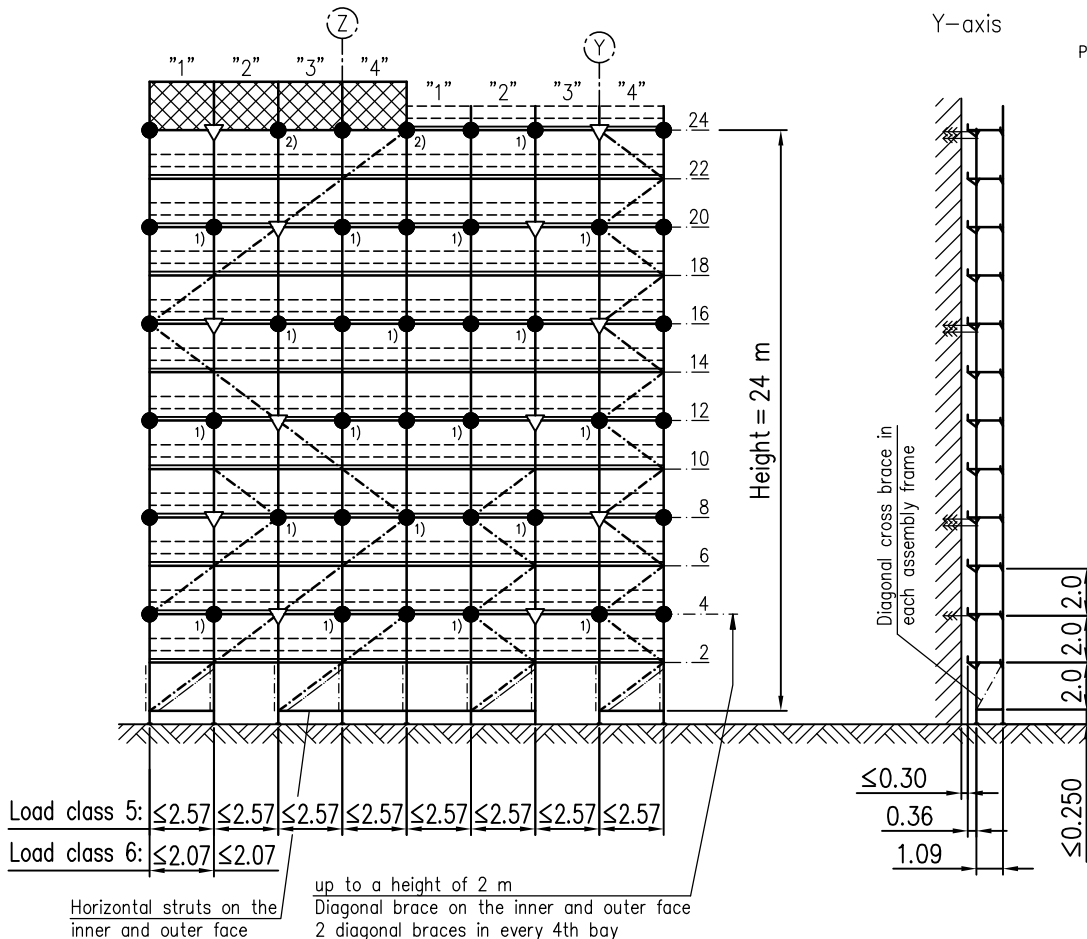
Annex C,
page 9

Partially open facade / Closed facade
Unclad scaffolding

Bracket configuration 1 (with inner brackets)
–with or without protective wall

Load class 5, bay length ≤ 2.57 m
Load class 6, bay length ≤ 2.07 m

Not applicable to EXP-frames
(Tilting pin frame)



- → "Short" wall tie (scaffold retainer)
(only fitted to inner standard)
- ▽ → V-type anchor
(1 per 4 bays on each anchor level)

Anchor forces [kN]							
Facade	At right angles to the facade			Parallel to the facade		Maximum inclined load	
	anchor configuration shown		topmost anchor level for protective wall		Short wall tie (scaffold retainer)	V-type anchor	V-type anchor
	Com- pression	Tension	Com- pression	Tension			
Load class 5, bay length 2.57 m							
partially open	3.9		3.1	2.7	0.1	6.2	4.4
closed	1.5						
Load class 6, bay length 2.07 m							
partially open	3.3		2.6	2.3	0.1	6.5	4.6
closed	1.3						

Anchoring:

1) Anchorage may be omitted in front of closed facades.

Additional reinforcement measures for EXP frames:

Anchoring: 2) At the topmost anchor level, each single node must be anchored.

Frame scaffold ALBLITZ 100 S

Unclad scaffolding / Bracket configuration 1
Load class 5 (≤ 2.57 m) ; 6 (≤ 2.07 m)

Annex C,
page 10

Partially open facade / Closed facade

Scaffold covered with nets ($C_{f1} \leq 0.6$)

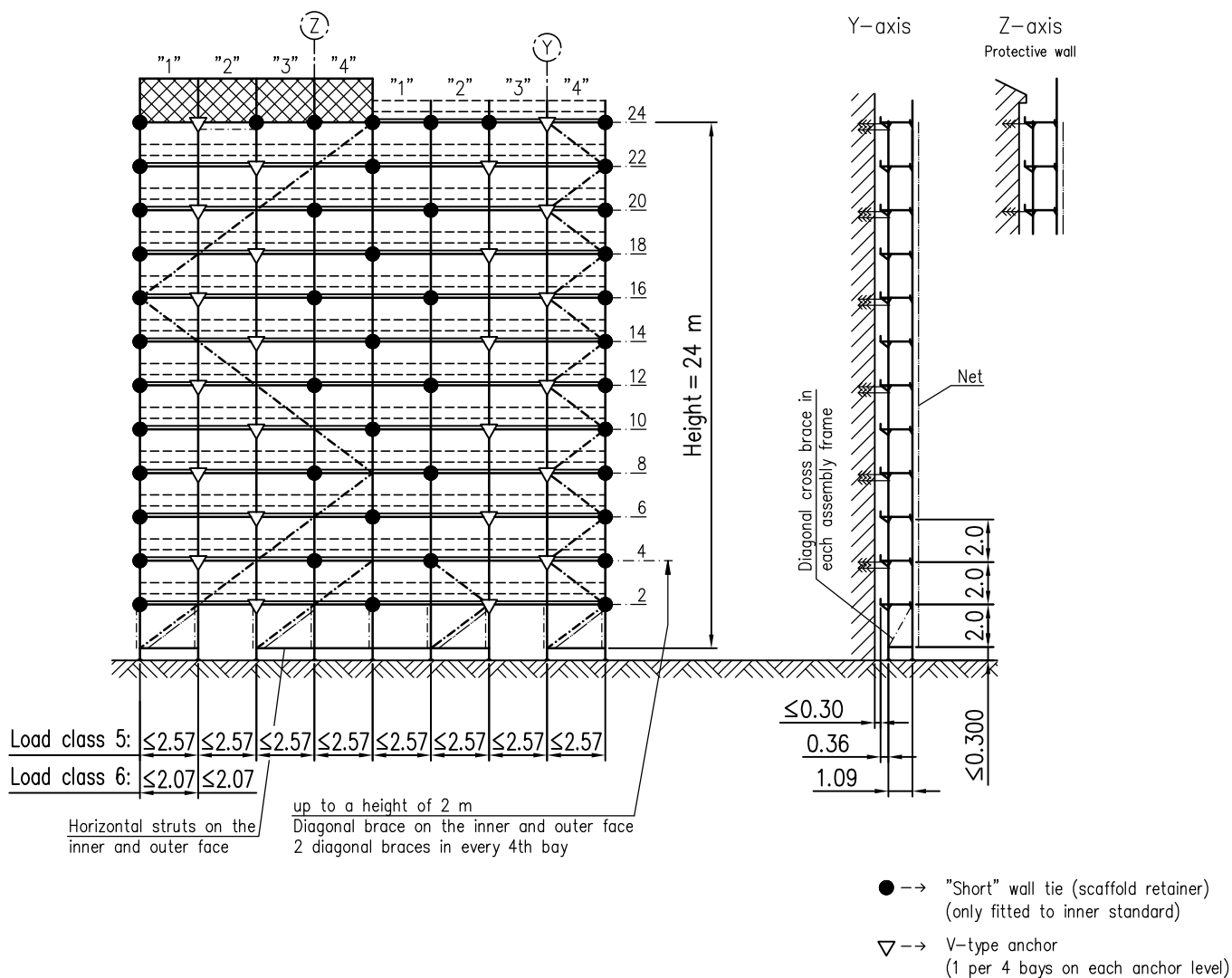
Bracket configuration 1 (with inner brackets)

–with or without protective wall

Load class 5, bay length ≤ 2.57 m

Load class 6, bay length ≤ 2.07 m

Not applicable to EXP-frames
(Tilting pin frame)



Anchor forces [kN]

Facade	At right angles to the facade				Parallel to the facade		
	anchor configuration shown		topmost anchor level for protective wall		Maximum inclined load		
	Com- pression	Tension	Com- pression	Tension	Short wall tie (scaffold retainer)	V-type anchor	V-type anchor
Load class 5, bay length 2.57 m							
partially open	3.5	3.6	3.5	0.1	4.2	3.0	
Load class 6, bay length 2.07 m							
partially open	2.9	2.9	2.8	0.1	3.8	2.7	

Frame scaffold ABLITZ 100 S

Scaffold covered with nets / Bracket configuration 1
Load class 5 (≤ 2.57 m) ; 6 (≤ 2.07 m)

Annex C,
page 11

Closed facade

Scaffold covered with nets ($C_{f1} \leq 0.6$)

Basic configuration

–with or without protective wall

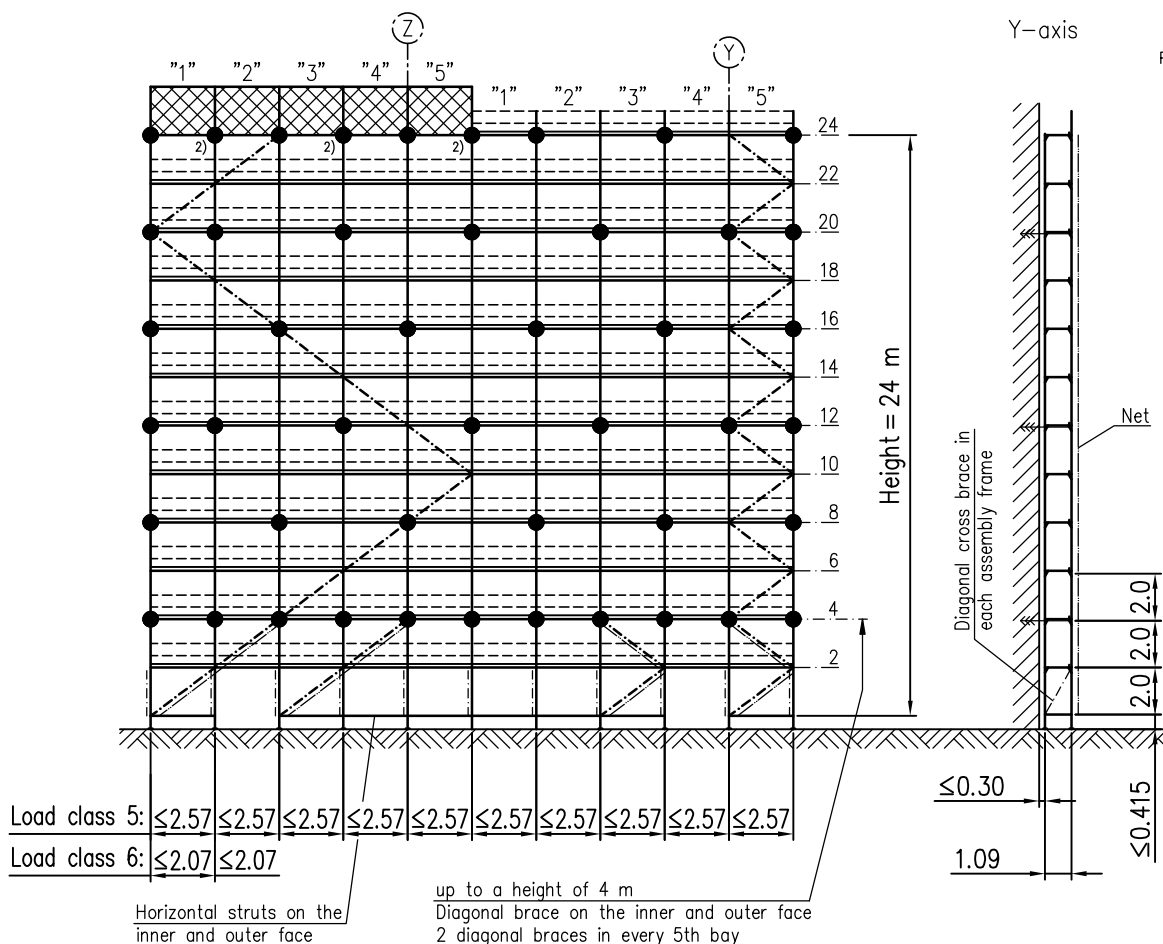
Load class 5, bay length ≤ 2.57 m

Load class 6, bay length ≤ 2.07 m

Not applicable to EXP-frames
(Tilting pin frame)

Y-axis

Z-axis
Protective wall



● → "Long" wall tie (scaffold retainer)
or quick-release anchor

Anchor forces [kN]						
Facade	At right angles to the facade				Parallel to the facade	
	anchor configuration shown		topmost anchor level for protective wall		Long wall tie (scaffold retainer)	Maximum inclined load
	Com-pression	Tension	Com-pression	Tension	V-type anchor	V-type anchor
Load class 5, bay length 2.57 m						
closed	2.4	3.6	3.5	1.0	–	–
Load class 6, bay length 2.07 m						
closed	2.0	2.9	2.8	0.9	–	–

Additional reinforcement measures for EXP frames:

Anchoring: 2) At the topmost anchor level, **each** single node must be anchored.

Frame scaffold ALBLITZ 100 S

Scaffold covered with nets / Basic configuration
Load class 5 (≤ 2.57 m) ; 6 (≤ 2.07 m)

Annex C,
page 12

Closed facade

Scaffold covered with nets ($C_{f1} \leq 0.6$)

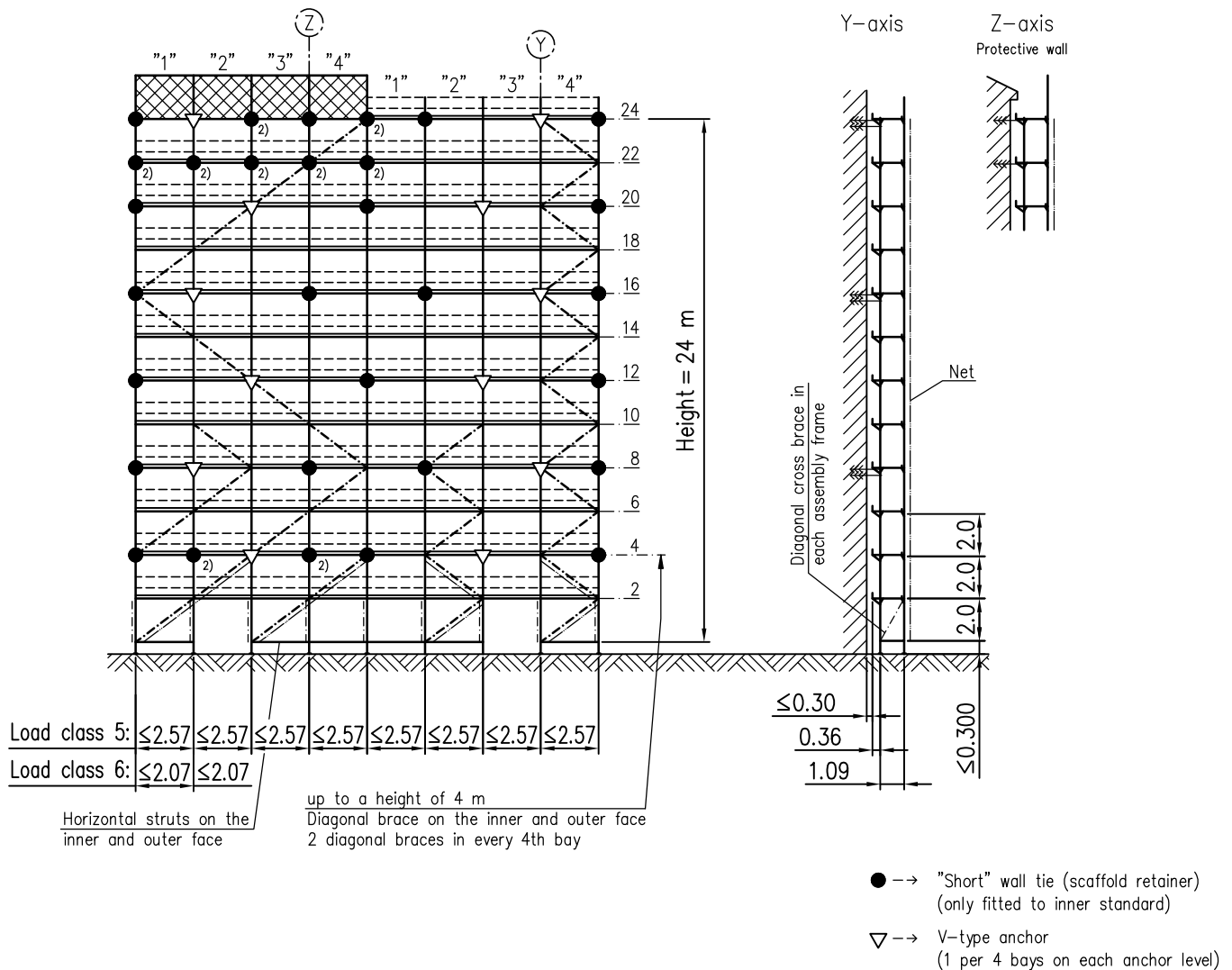
Bracket configuration 1 (with inner brackets)

–with or without protective wall

Load class 5, bay length ≤ 2.57 m

Load class 6, bay length ≤ 2.07 m

Not applicable to EXP-frames
(Tilting pin frame)



Anchor forces [kN]

Anchor forces [kN]							
Facade	At right angles to the facade				Parallel to the facade		Maximum inclined load
	anchor configuration shown		topmost anchor level for protective wall				
	Com- pression	Tension	Com- pression	Tension	Short wall tie (scaffold retainer)	V-type anchor	
Load class 5, bay length 2.57 m							
geschlossen	2.4	3.6	3.5	0.1	4.1	2.9	
Load class 6, bay length 2.07 m							
geschlossen	2.0	2.9	2.8	0.1	3.8	2.7	

Additional reinforcement measures for EXP frames:

Anchoring: 2) At a height of 4 m, 22 m and 24 m
each single node must be anchored.

Frame scaffold ALBLITZ 100 S

Scaffold covered with nets / Bracket configuration 1
Load class 5 (≤ 2.57 m) ; 6 (≤ 2.07 m)

Annex C,
page 13

Partially open facade / Closed facade

Scaffold covered with tarpaulins

Bracket configuration 1 (with inner brackets)

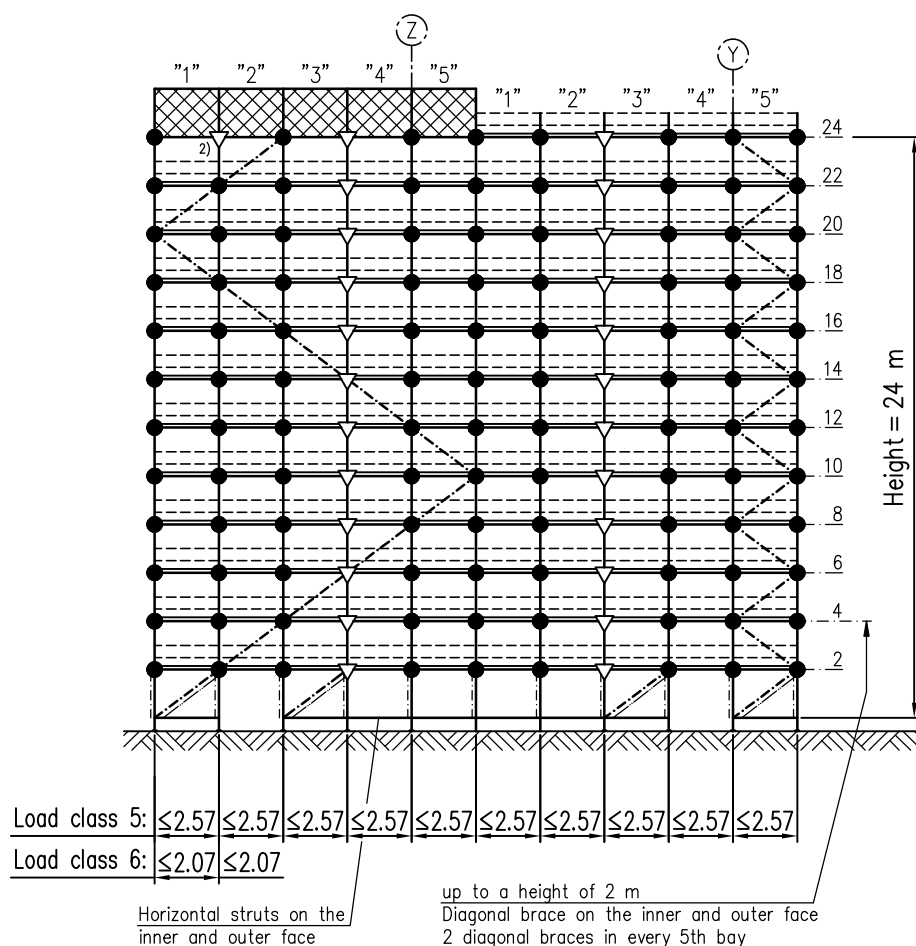
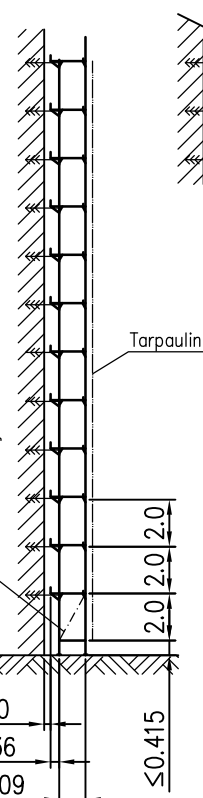
–with or without protective wall

Load class 5, bay length ≤ 2.57 m

Load class 6, bay length ≤ 2.07 m

Not applicable to EXP-frames
(Tilting pin frame)

Y-axis Z-axis
Protective wall



Load class 5: ≤ 2.57 ≤ 2.57 ≤ 2.57 ≤ 2.57 ≤ 2.57 ≤ 2.57 ≤ 2.57 ≤ 2.57 ≤ 2.57 ≤ 2.57
Load class 6: ≤ 2.07 ≤ 2.07

Horizontal struts on the
inner and outer face

up to a height of 2 m
Diagonal brace on the inner and outer face
2 diagonal braces in every 5th bay

- → "Short" wall tie (scaffold retainer)
(only fitted to inner standard)
- ▽ → V-type anchor
(1 per 4 bays on each anchor level)

Anchor forces [kN]

Facade	At right angles to the facade		Parallel to the facade		Maximum inclined load	
	anchor configuration shown		topmost anchor level for protective wall			
	Com- pression	Tension	Com- pression	Tension	Short wall tie (scaffold retainer)	V-type anchor
Load class 5, bay length 2.57 m						
partially open	5.8	5.3	4.6	4.0	0.1	5.6
closed	4.3	2.4				4.1
Load class 6, bay length 2.07 m						
partially open	4.6	4.3	3.9	3.4	0.1	5.2
closed	3.4	2.0				3.7

Additional reinforcement measures for variants with protective wall:

Anchoring: 2) One additional V-type anchor at a height of 24 m in every fifth bay.

Frame scaffold ALBLITZ 100 S

Scaffold covered with tarpaulins / Bracket configuration 1
Load class 5 (≤ 2.57 m) ; 6 (≤ 2.07 m)

Annex C,
page 14

Additional measures for the protective roof

Load class 4, bay length ≤ 3.07 m

Load class 5, bay length ≤ 2.57 m

Load class 6, bay length ≤ 2.07 m

Not applicable to EXP-frames

(Tilting pin frame)

Partially open facade / Closed facade

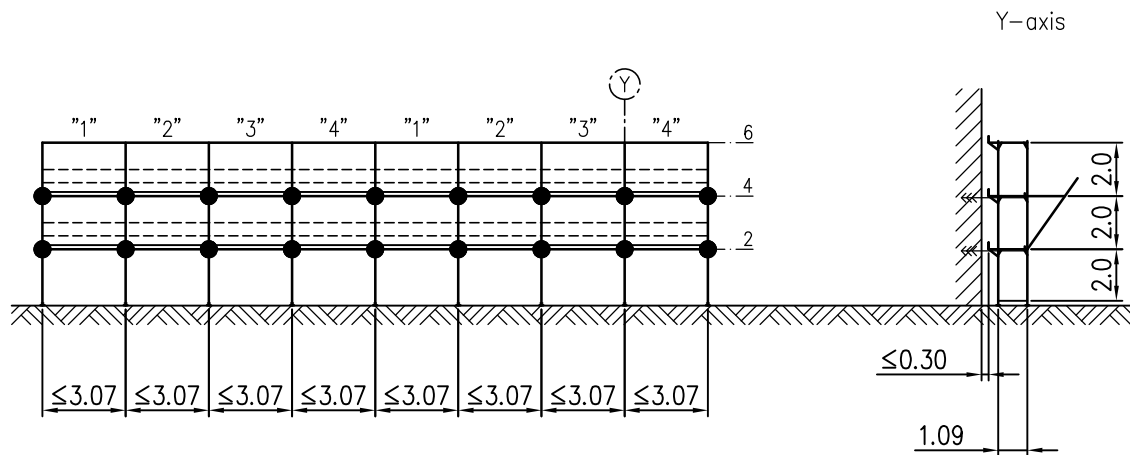
Unclad scaffolding

Basic and bracket configuration

The anchors shown **must be installed additionally** if they are not comprised in the respective assembly configuration.
V-type anchor required at a height of 4 m!

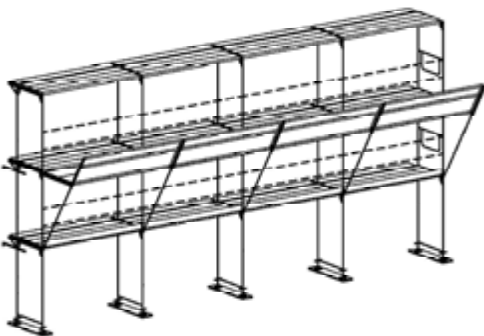
Other design variants in accordance with assembly configuration

Annex C, pages 1, 2, 3, 9, 10



● → "Short" wall tie (scaffold retainer)
(only fitted to inner standard)

3D - layout



Additional measures for the protective roof:

Anchoring: At a height of 2 m and 4 m **each** single node must be anchored.

Further instructions: Diagonal cross brace in lowermost frame is not required for designs with protective roof.

Anchor forces in accordance with the assembly variant

Frame scaffold ALBLITZ 100 S

Unclad scaffolding / Basic and bracket configuration

Protective roof / Load class 4 ; 5 ; 6

Annex C,
page 15

Additional measures for configuration with passage frame

Load class 4, bay length ≤ 3.07 m

Load class 5, bay length ≤ 2.57 m

Load class 6, bay length ≤ 2.07 m

Not applicable to EXP-frames
(Tilting pin frame)

Partially open facade / Closed facade

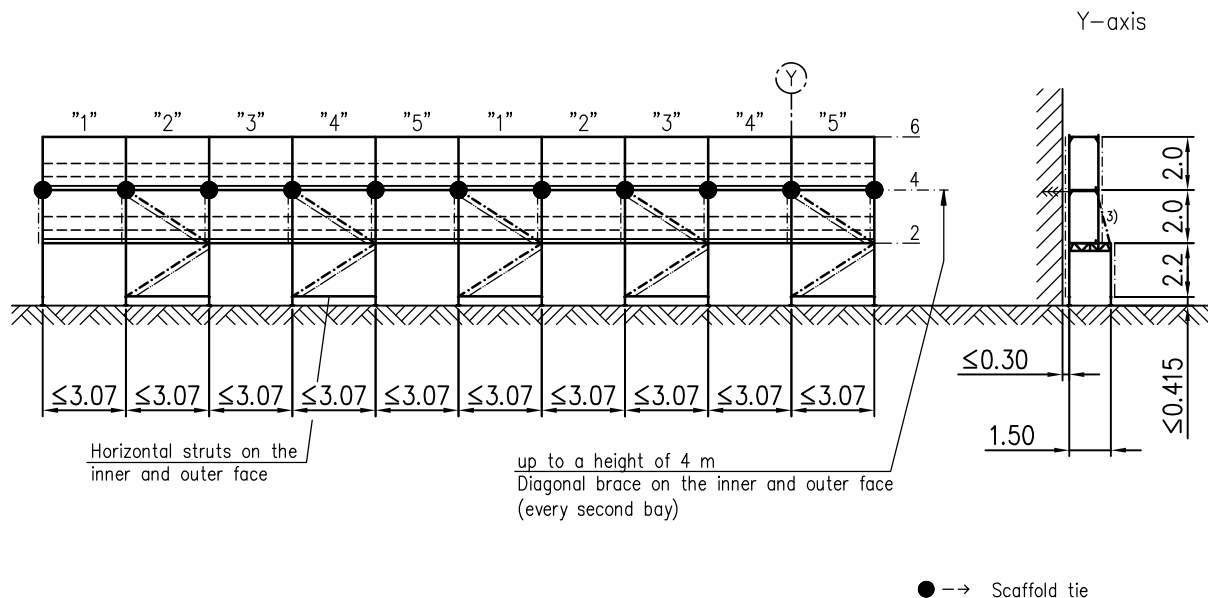
Unclad scaffolding

Basic configuration

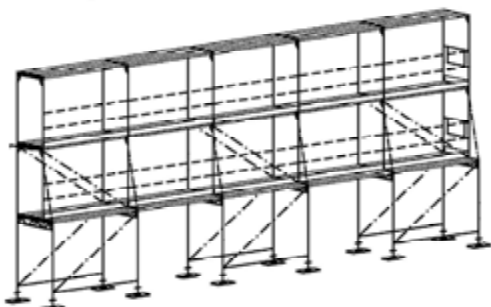
The anchors and bracing elements shown **must be installed additionally** if they are not comprised in the respective assembly configuration. V-type anchor required at a height of 4 m!

Other design variants in accordance with assembly configuration

Annex C, pages 1, 9



3D - layout



Additional measures for configuration with passage frame:

Anchorage: At a height of 4 m **every** node must be anchored.

Bracing: Horizontal struts above spindle nut on the inner and outer face in **every second bay**.

Diagonal brace on the inner and outer face up to a height of 4 m in **every second bay**.

3) Tube $\varnothing 48.3 \times 3.2$ on the outer face above the passage frame on each post axis.
Connection with swivel coupler.

Anchor forces in accordance with the assembly variant

Frame scaffold ALBLITZ 100 S

Unclad scaffolding / Basic configuration

Passage frame / Load class 4 ; 5 ; 6

Annex C,
page 16

Additional measures for configuration with passage frame

Load class 4, bay length ≤ 3.07 m

Load class 5, bay length ≤ 2.57 m

Load class 6, bay length ≤ 2.07 m

Not applicable to EXP-frames
(Tilting pin frame)

Partially open facade / Closed facade

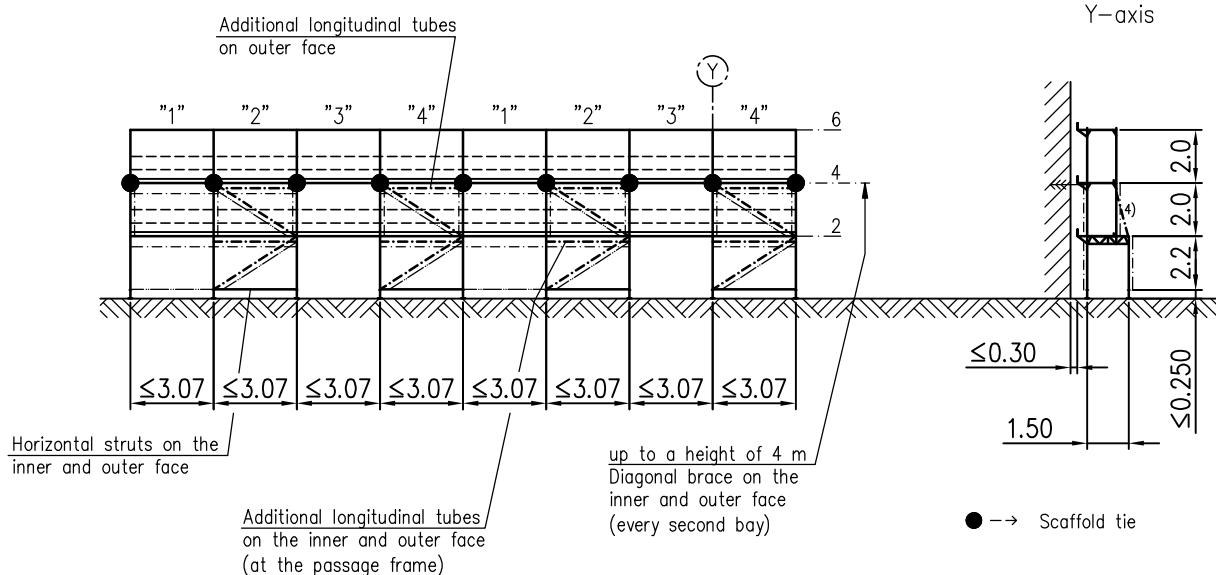
Unclad scaffolding

Bracket configurations

The anchors and bracing elements shown **must be installed additionally** if they are not comprised in the respective assembly configuration. V-type anchor required at a height of 4 m!

Other design variants in accordance with assembly configuration

Annex C, pages 2, 3, 8, 10



Additional measures for configuration with passage frame:

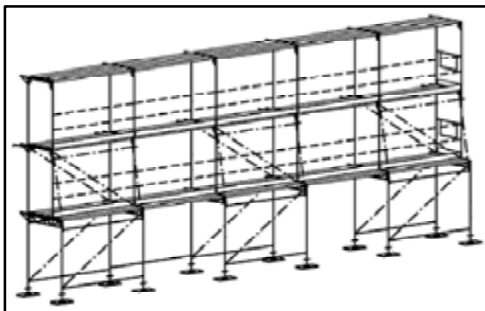
Anchoring: At a height of 4 m **every** node must be anchored.

Bracing: Diagonal brace on the inner and outer face up to a height of 4 m in **every second bay**. Horizontal struts or longitudinal tubes $\varnothing 48.3 \times 3.2$ with right-angle couplers on outer face in **every second bay** and on inner face in **3 out of 4 bays**:

- above spindle nut
- at a height of 2 m
- at a height of 4 m

4) Tube $\varnothing 48.3 \times 3.2$ on the outer face above the passage frame on each post axis. Connection by means of right-angle coupler at the longitudinal tubes.

3D - layout



Anchor forces in accordance with the assembly variant

Frame scaffold ABLITZ 100 S

Unclad scaffolding / Bracket configurations

Passage frame / Load class 4 ; 5 ; 6

Annex C,
page 17

Additional measures for bridging girder 6.14 m

Load class 4, bay length 3.07 m

Partially open facade

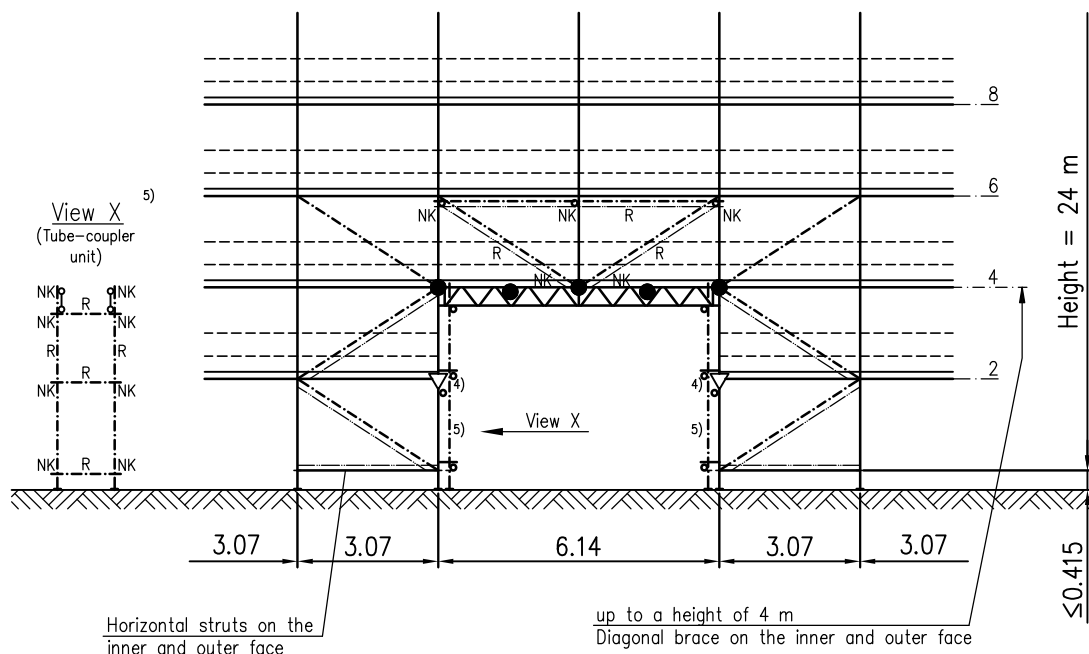
Closed facade

Unclad scaffolding

Basic configuration

The anchors and bracing elements shown **must be installed additionally** if they are not comprised in the respective assembly configuration. V-type anchor required!

Other design variants in accordance with assembly configuration
Annex C, page 1



Additional measures at the bridging construction:

Anchorage: Edge distances next to the bridging construction at a height of 2 m (V-type anchor).

- 4) Additional coupler tube (48.3 x 3.2 + standard coupler) between inner and outer post at the height of the anchor.

Longitudinal bracing: Vertical diagonal braces on the outer face and tube-coupler bracing above the bridging girder on the inner and outer face as shown.
– Vertical diagonal braces on the inner face up to a height of 4 m next to the bridging construction
– Horizontal strut above base jack on the inner and outer face next to the bridging construction

Further instructions: Anchoring of the lattice girders in the bay

- 5) Additional scaffold section (tube-coupler unit) below the bridging girder, design see view X.
(at a height of 2 m on the inner and outer face, coupled to scaffold)

● → "Long" wall tie (scaffold retainer) or quick-release anchor

▽ → V-type anchor

R = Scaffold tube

NK = Standard coupler

Anchor forces in accordance with the assembly variant

Frame scaffold ALBLITZ 100 S

Unclad scaffolding / Basic configuration

Bridging construction L = 6.14 m / Load class 4, bay length 3.07 m

Annex C,
page 18

Additional measures for bridging girder 6.14 m

Load class 4, bay length 3.07 m

Partially open facade

Closed facade

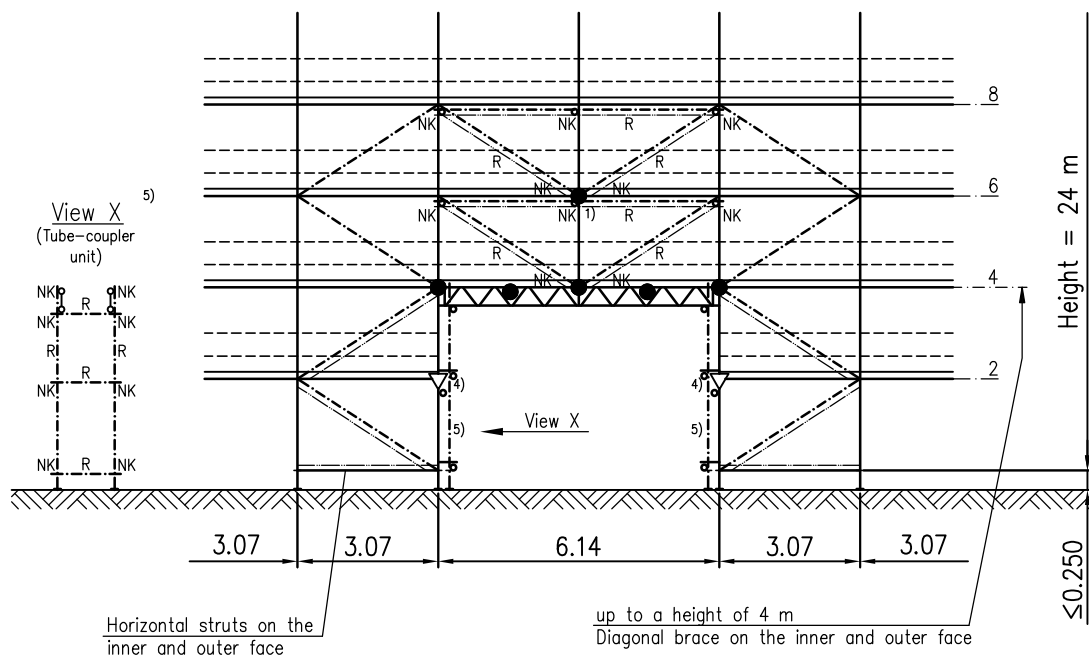
Unclad scaffolding

Bracket configurations

The anchors and bracing elements shown **must be installed additionally** if they are not comprised in the respective assembly configuration. V-type anchor required!

Other design variants in accordance with assembly configuration

Annex C, pages 2, 3



Additional measures at the bridging construction:

Anchorage: Edge distances next to the bridging construction at a height of 2 m (V-type anchor).

- 4) Additional coupler tube (48.3 x 3.2 + standard coupler) between inner and outer post at the height of the anchor.
- 1) Additional anchor at a height of 6 m centrally positioned above the bridging construction

Longitudinal bracing: Vertical diagonal braces on the outer face and tube-coupler bracing above the bridging girder on the inner and outer face as shown.

- Vertical diagonal braces on the inner face up to a height of 4 m next to the bridging construction
- Horizontal strut above base jack on the inner and outer face next to the bridging construction

Further instructions: Anchoring of the lattice girders in the bay

- 5) Additional scaffold section (tube-coupler unit) below the bridging girder, design see view X.
(at a height of 2 m on the inner and outer face, coupled to scaffold)

● -> Scaffold tie
▽ -> V-type anchor
R = Scaffold tube
NK = Standard coupler

Anchor forces in accordance with the assembly variant

Frame scaffold ABLITZ 100 S

Unclad scaffolding / Bracket configurations

Bridging construction L = 6.14 m / Load class 4, bay length 3.07 m

Annex C,
page 19

Additional measures for bridging girder 6.14 m

Load class 4, bay length 3.07 m

Partially open facade

Closed facade

Clad scaffolding

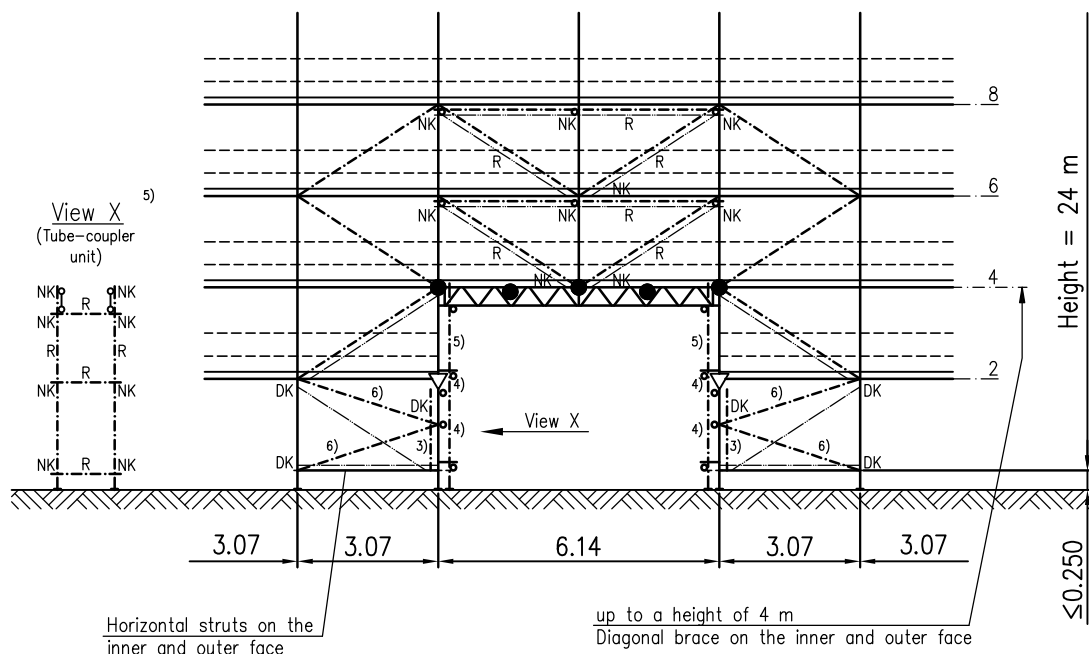
Basic and bracket configurations

The anchors and bracing elements shown **must be installed additionally** if they are not comprised in the respective assembly configuration. V-type anchor required!

Other design variants in accordance with assembly configuration

Annex C, pages 4, 5, 6, 7

At the bridging construction (up to a height of 8 m) anchorage of configurations clad with nets must be executed as for configurations clad with tarpaulins.



Additional measures at the bridging construction:

Anchorage: Edge distances next to the bridging construction at a height of 2 m (V-type anchor).

- 4) Additional coupler tube (48.3 x 3.2 + standard coupler) between inner and outer post at the height of the anchor.

Longitudinal bracing: Vertical diagonal braces on the outer face and tube-coupler bracing above the bridging girder on the inner and outer face as shown.
– Vertical diagonal braces on the inner face up to a height of 4 m next to the bridging construction
– Horizontal strut above base jack on the inner and outer face next to the bridging construction

Further instructions: Anchoring of the lattice girders in the bay

- 5) Additional scaffold section (tube-coupler unit) below the bridging girder, design see view X.
(at a height of 2 m on the inner and outer face, coupled to scaffold)
6) Diagonal brace on the outer face (tubes + swivel coupler) as shown.
3) Additional diagonal cross brace next to bridging construction

● → Scaffold tie

▽ → V-type anchor

R = Scaffold tube

NK = Standard coupler

DK = Swivel coupler

Anchor forces in accordance with the assembly variant

Frame scaffold ABLITZ 100 S

Clad scaffolding / Basic and bracket configurations

Bridging construction L = 6.14 m / Load class 4, bay length 3.07 m

Annex C,
page 20

Additional measures for bridging girder 5.14 m

Load class 5, bay length 2.57 m

Partially open facade

Closed facade

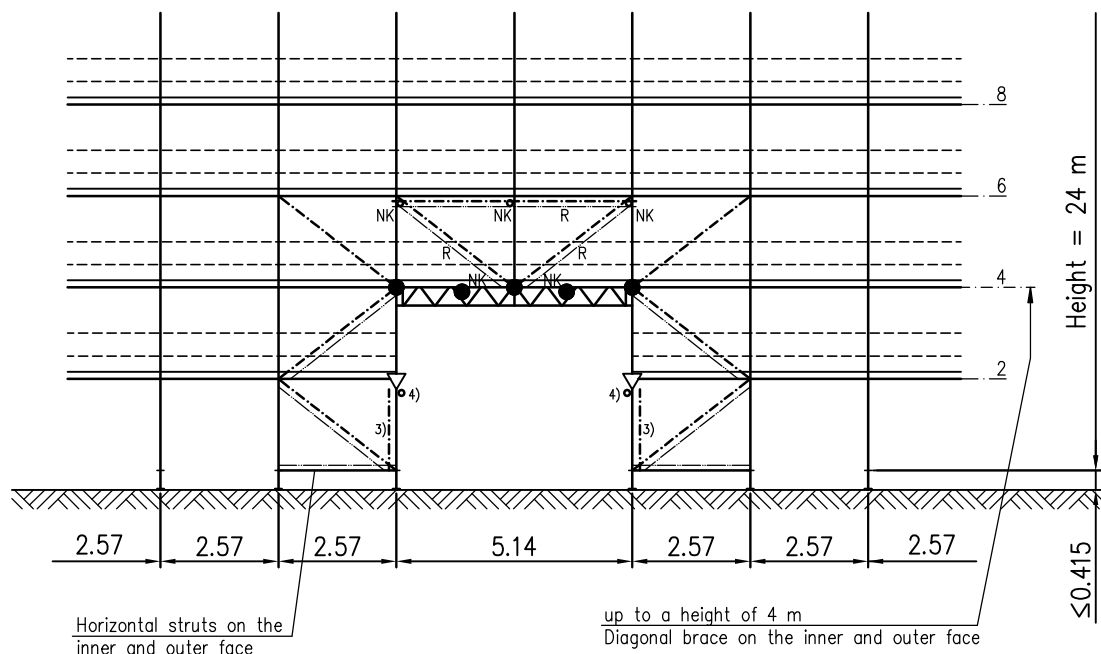
Unclad scaffolding

Basic configuration

**Not applicable
to EXP-frames**
(Tilting pin frame)

The anchors and bracing elements shown **must be installed additionally** if they are not comprised in the respective assembly configuration. V-type anchor required!

Other design variants in accordance with assembly configuration
Annex C, page 9



Additional measures at the bridging construction:

Anchorage: Edge distances next to the bridging construction at a height of 2 m (V-type anchor).

- 4) Additional coupler tube (48.3 x 3.2 + standard coupler) between inner and outer post at the height of the anchor.

Longitudinal bracing: Vertical diagonal braces on the outer face and tube-coupler bracing above the bridging girder on the inner and outer face as shown.
– Vertical diagonal braces on the inner face up to a height of 4 m next to the bridging construction
– Horizontal strut above base jack on the inner and outer face next to the bridging construction

Further instructions: Anchoring of the lattice girders in the bay
3) Diagonal cross brace on lowermost level next to the bridging construction

● → "Long" wall tie (scaffold retainer) or quick-release anchor

▽ → V-type anchor

R = Scaffold tube

NK = Standard coupler

Anchor forces in accordance with the assembly variant

Frame scaffold ALBLITZ 100 S

Unclad scaffolding / Basic configuration

Bridging construction L = 5.14 m / Load class 5, bay length 2.57 m

Annex C,
page 21

Additional measures for bridging girder 5.14 m

Load class 5, bay length 2.57 m

Partially open facade

Closed facade

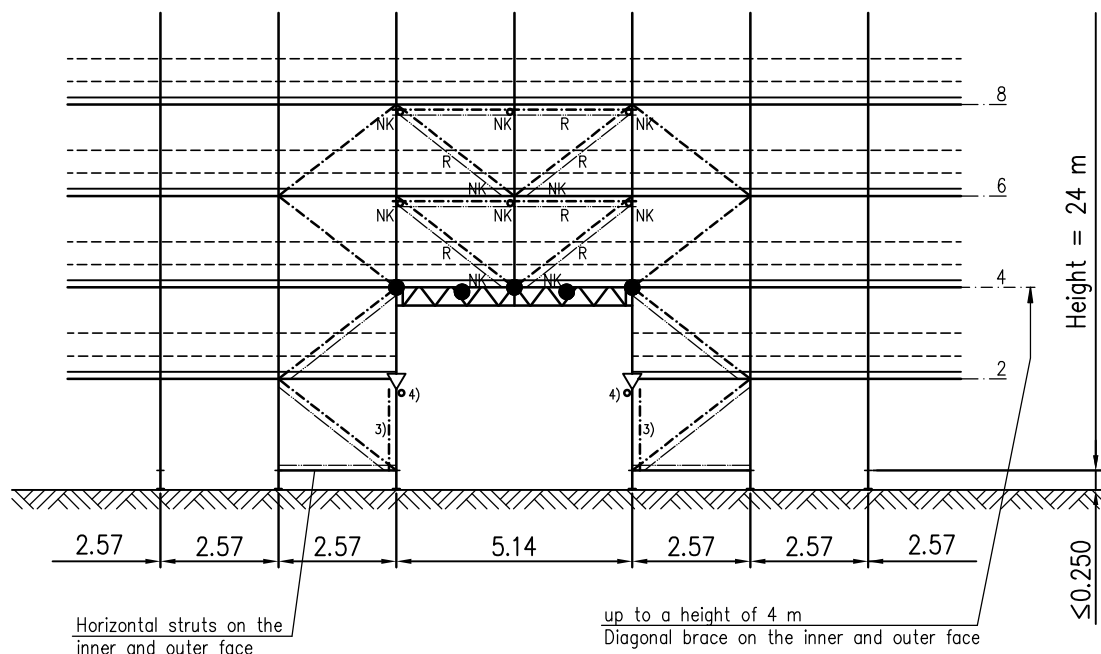
Unclad scaffolding

Bracket configuration

**Not applicable
to EXP-frames**
(Tilting pin frame)

The anchors and bracing elements shown **must be installed additionally** if they are not comprised in the respective assembly configuration. V-type anchor required!

Other design variants in accordance with assembly configuration
Annex C, page 10



Additional measures at the bridging construction:

Anchorage: Edge distances next to the bridging construction at a height of 2 m (V-type anchor).

4) Additional coupler tube (48.3 x 3.2 + standard coupler) between inner and outer post at the height of the anchor.

Longitudinal bracing: Vertical diagonal braces on the outer face and tube-coupler bracing above the bridging girder on the inner and outer face as shown.
– Vertical diagonal braces on the inner face up to a height of 4 m next to the bridging construction
– Horizontal strut above base jack on the inner and outer face next to the bridging construction

Further instructions: Anchoring of the lattice girders in the bay
3) Diagonal cross brace on lowermost level next to the bridging construction

● → Scaffold tie
▽ → V-type anchor
R = Scaffold tube
NK = Standard coupler

Anchor forces in accordance with the assembly variant

Frame scaffold ABLITZ 100 S

Unclad scaffolding / Bracket configuration

Bridging construction L = 5.14 m / Load class 5, bay length 2.57 m

Annex C,
page 22

Additional measures for bridging girder 5.14 m

Load class 5, bay length 2.57 m

Partially open facade

Closed facade

Clad scaffolding

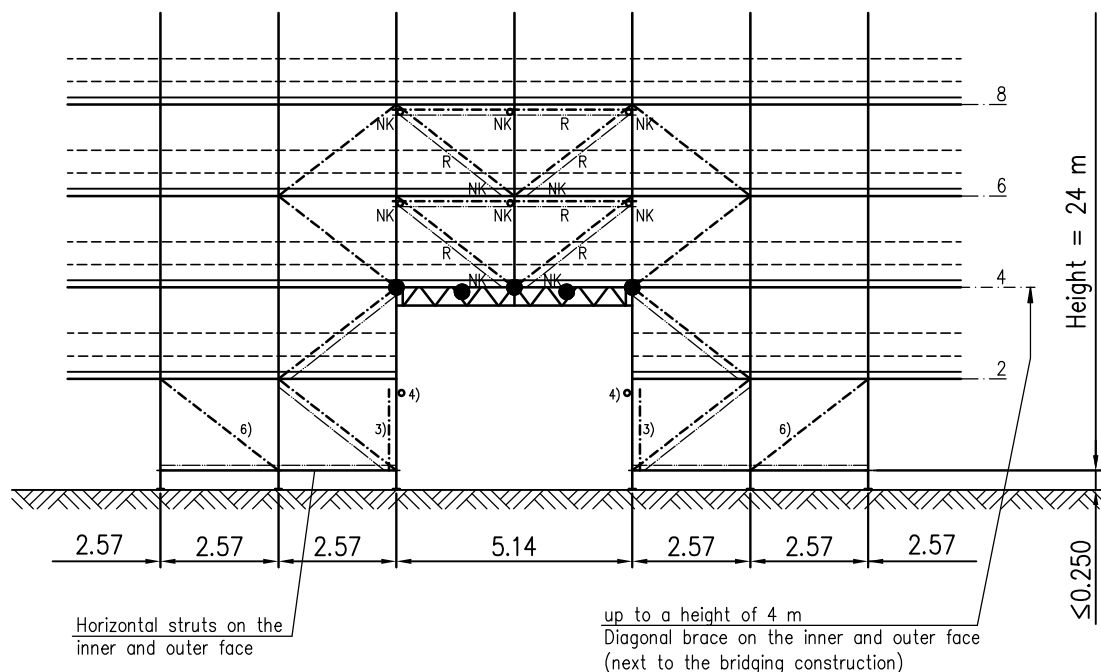
Basic and bracket configuration

**Not applicable
to EXP-frames**
(Tilting pin frame)

The anchors and bracing elements shown **must be installed additionally** if they are not comprised in the respective assembly configuration. V-type anchor required!

Other design variants in accordance with assembly configuration
Annex C, pages 11, 12, 13, 14

At the bridging construction (up to a height of 8 m) anchorage of configurations clad with nets must be executed as for configurations clad with tarpaulins.



Additional measures at the bridging construction:

Anchorage: Edge distances next to the bridging construction at a height of 2 m (V-type anchor).
4) Additional coupler tube (48.3 x 3.2 + standard coupler) between inner and outer post at the height of the anchor.

Longitudinal bracing: Vertical diagonal braces on the outer face and tube-coupler bracing above the bridging girder on the inner and outer face as shown.
– Vertical diagonal braces on the inner face up to a height of 4 m next to the bridging construction
– Horizontal strut above base jack on the inner and outer face next to the bridging construction
6) Additional diagonal braces as shown

Further instructions: Anchoring of the lattice girders in the bay
3) Diagonal cross brace on lowermost level next to the bridging construction

● → Scaffold tie
▽ → V-type anchor
R = Scaffold tube
NK = Standard coupler

Anchor forces in accordance with the assembly variant

Frame scaffold ALBLITZ 100 S

Clad scaffolding / Basic and bracket configuration

Bridging construction L = 5.14 m / Load class 5, bay length 2.57 m

Annex C,
page 23

Additional measures for bridging girder 4.14 m

Load class 6, bay length 2.07 m

Partially open facade

Closed facade

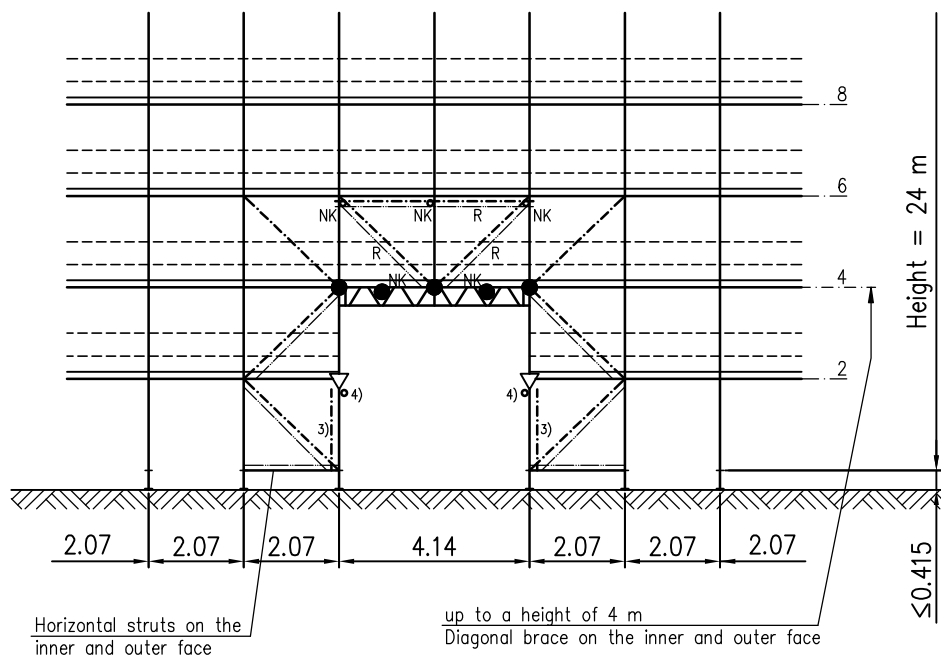
Unclad scaffolding

Basic configuration

**Not applicable
to EXP-frames**
(Tilting pin frame)

The anchors and bracing elements shown **must be installed additionally** if they are not comprised in the respective assembly configuration. V-type anchor required!

Other design variants in accordance with assembly configuration
Annex C, page 9



Additional measures at the bridging construction:

Anchorage: Edge distances next to the bridging construction at a height of 2 m (V-type anchor).

- 4) Additional coupler tube (48.3 x 3.2 + standard coupler) between inner and outer post at the height of the anchor.

Longitudinal bracing: Vertical diagonal braces on the outer face and tube-coupler bracing above the bridging girder on the inner and outer face as shown.
– Vertical diagonal braces on the inner face up to a height of 4 m next to the bridging construction
– Horizontal strut above base jack on the inner and outer face next to the bridging construction

Further instructions: Anchoring of the lattice girders in the bay
3) Diagonal cross brace on lowermost level next to the bridging construction

● → "Long" wall tie (scaffold retainer) or quick-release anchor

▽ → V-type anchor

R = Scaffold tube

NK = Standard coupler

Anchor forces in accordance with the assembly variant

Frame scaffold ALBLITZ 100 S

Unclad scaffolding / Basic configuration

Bridging construction L = 4.14 m / Load class 6, bay length 2.07 m

Annex C,
page 24

Additional measures for bridging girder 4.14 m

Load class 6, bay length 2.07 m

Partially open facade

Closed facade

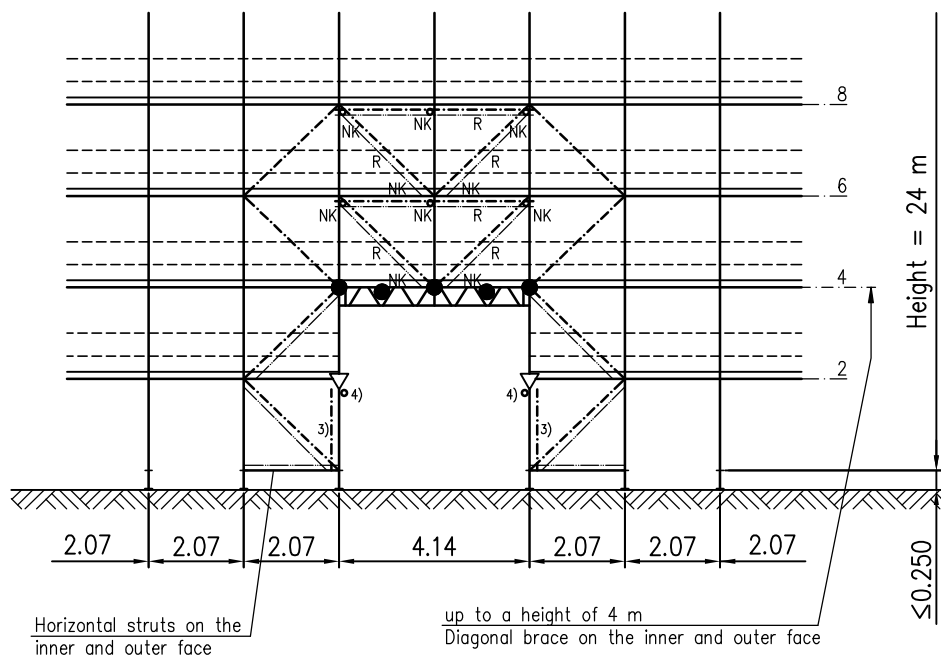
Unclad scaffolding

Bracket configuration

Not applicable
to EXP-frames
(Tilting pin frame)

The anchors and bracing elements shown **must be installed additionally** if they are not comprised in the respective assembly configuration. V-type anchor required!

Other design variants in accordance with assembly configuration
Annex C, page 10



Additional measures at the bridging construction:

Anchorage: Edge distances next to the bridging construction at a height of 2 m (V-type anchor).

- 4) Additional coupler tube (48.3 x 3.2 + standard coupler) between inner and outer post at the height of the anchor.

Longitudinal bracing: Vertical diagonal braces on the outer face and tube-coupler bracing above the bridging girder on the inner and outer face as shown.

- Vertical diagonal braces on the inner face up to a height of 4 m next to the bridging construction
- Horizontal strut above base jack on the inner and outer face next to the bridging construction

Further instructions: Anchoring of the lattice girders in the bay

- 3) Diagonal cross brace on lowermost level next to the bridging construction

- → Scaffold tie
- ▽ → V-type anchor
- R = Scaffold tube
- NK = Standard coupler

Anchor forces in accordance with the assembly variant

Frame scaffold ALBLITZ 100 S

Unclad scaffolding / Bracket configuration

Bridging construction L = 4.14 m / Load class 6, bay length 2.07

Annex C,
page 25

Additional measures for bridging girder 4.14 m

Load class 6, bay length 2.07 m

Partially open facade

Closed facade

Clad scaffolding

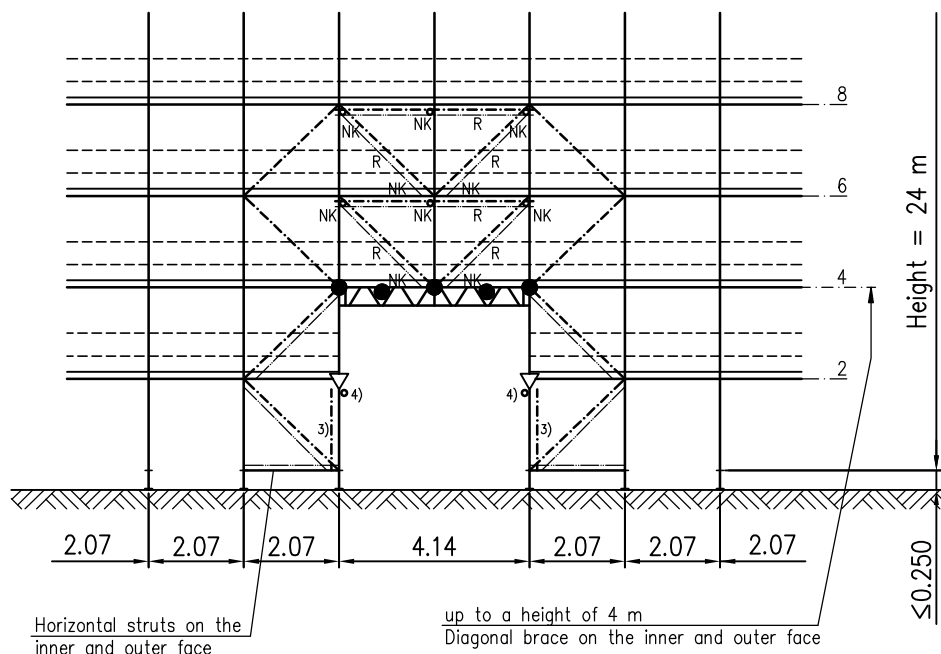
Basic and bracket configuration

**Not applicable
to EXP-frames**
(Tilting pin frame)

The anchors and bracing elements shown **must be installed additionally** if they are not comprised in the respective assembly configuration. V-type anchor required!

Other design variants in accordance with assembly configuration
Annex C, pages 11, 12, 13, 14

At the bridging construction (up to a height of 8 m) anchorage of configurations clad with nets must be executed as for configurations clad with tarpaulins.



Additional measures at the bridging construction:

Anchorage: Edge distances next to the bridging construction at a height of 2 m (V-type anchor).
4) Additional coupler tube (48.3 x 3.2 + standard coupler) between inner and outer post at the height of the anchor.

Longitudinal bracing: Vertical diagonal braces on the outer face and tube-coupler bracing above the bridging girder on the inner and outer face as shown.
– Vertical diagonal braces on the inner face up to a height of 4 m next to the bridging construction
– Horizontal strut above base jack on the inner and outer face next to the bridging construction

Further instructions: Anchoring of the lattice girders in the bay
3) Diagonal cross brace on lowermost level next to the bridging construction

● → Scaffold tie
▽ → V-type anchor
R = Scaffold tube
NK = Standard coupler

Anchor forces in accordance with the assembly variant

Frame scaffold ALBLITZ 100 S

Clad scaffolding / Basic and bracket configuration

Bridging construction L = 4.14 m / Load class 6, bay length 2.07 m

Annex C,
page 26

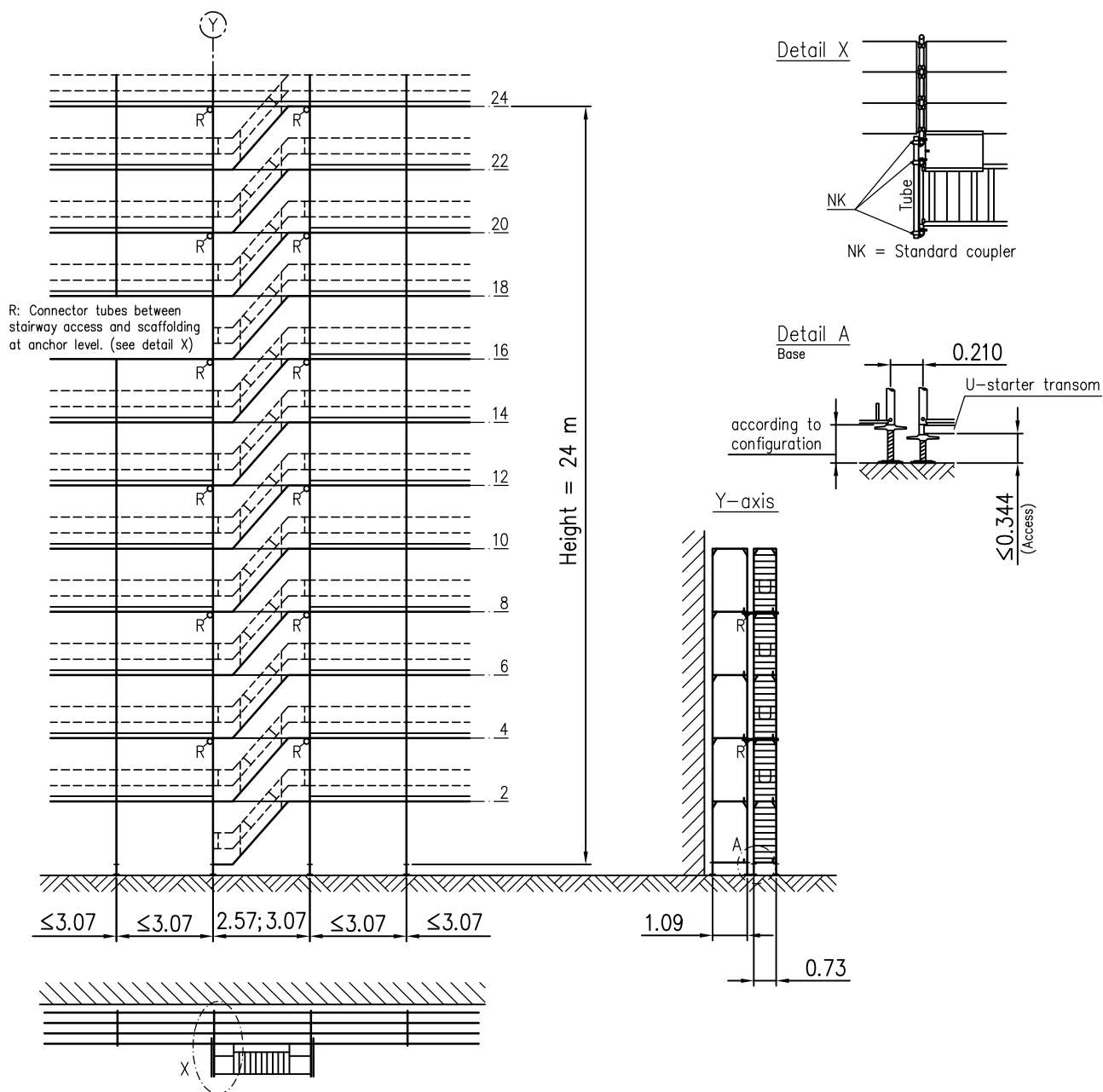
Stairway access with linear stair arrangement

Bay length ≤ 3.07 m

Partially open facade

Closed facade

Only the additional measures are shown.
Other design variants in accordance
with assembly configuration.



Additional measures at stairway access:

1 additional V-type anchor on **each** anchor level

Anchor forces in accordance with the assembly variant

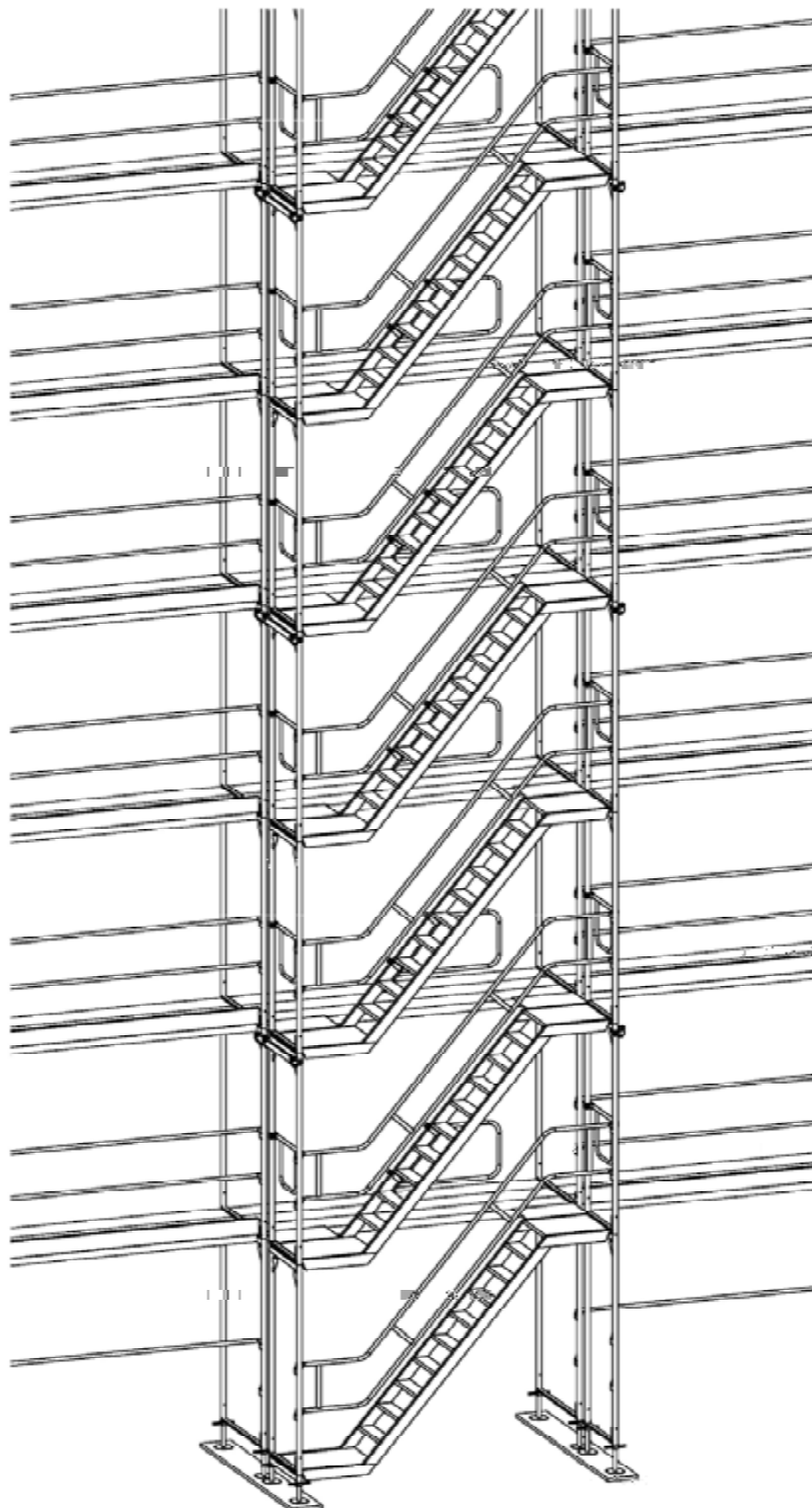
At right angles to the facade:
The forces stated must be increased
by the following values: **2.5 kN**

Frame scaffold ALBLITZ 100 S

Stairway access with linear stair arrangement / Bay length ≤ 3.07 m

Annex C,
page 27

Only the additional measures are shown.



Frame scaffold ALBLITZ 100 S

Stairway access with linear stair arrangement / 3D – layout

Annex C,
page 28

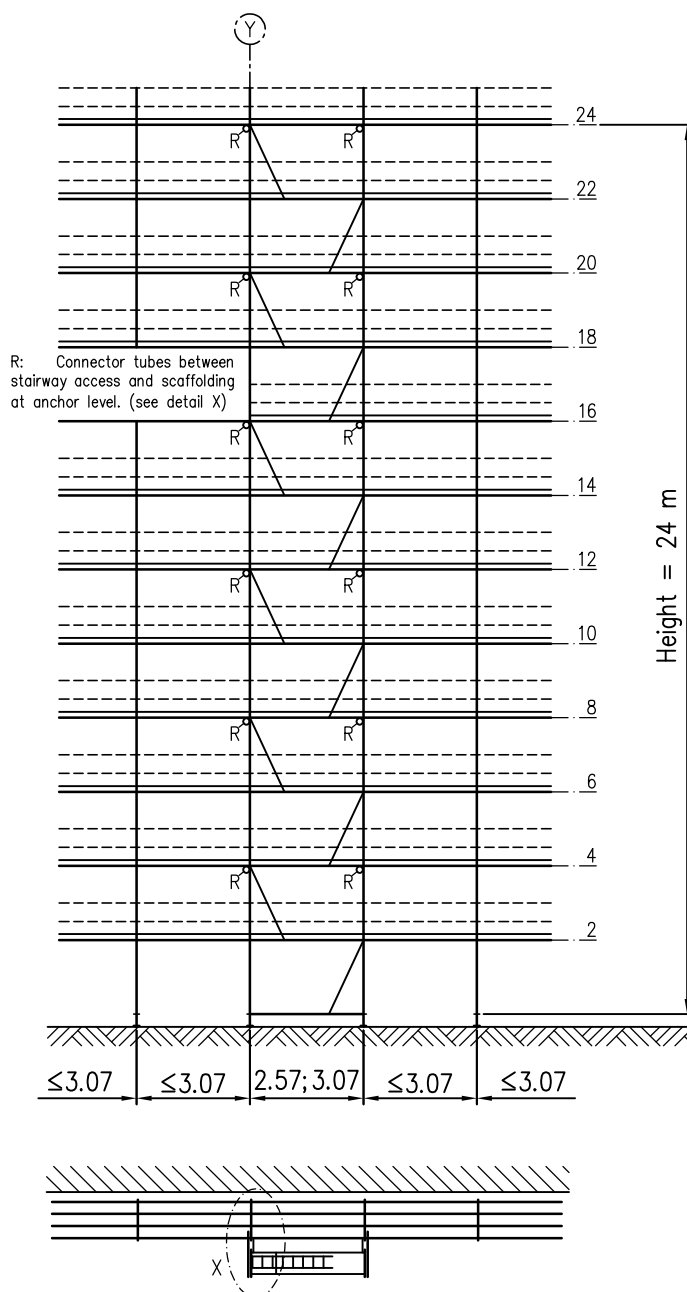
Ladder access

Bay length ≤ 3.07 m

Partially open facade

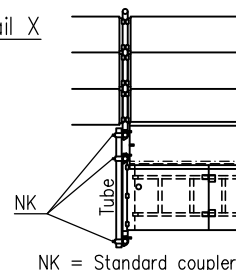
Closed facade

Only the additional measures are shown.
Other design variants in accordance
with assembly configuration.

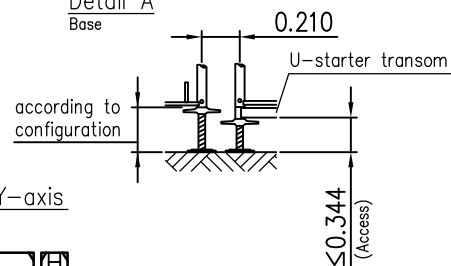


R: Connector tubes between
stairway access and scaffolding
at anchor level. (see detail X)

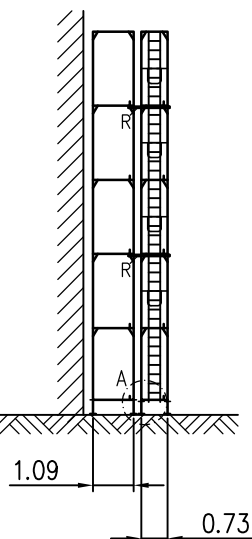
Detail X



Detail A



Y-axis



Additional measures at stairway access:

1 additional V-type anchor on **each** anchor level

Anchor forces in accordance with the
assembly variant

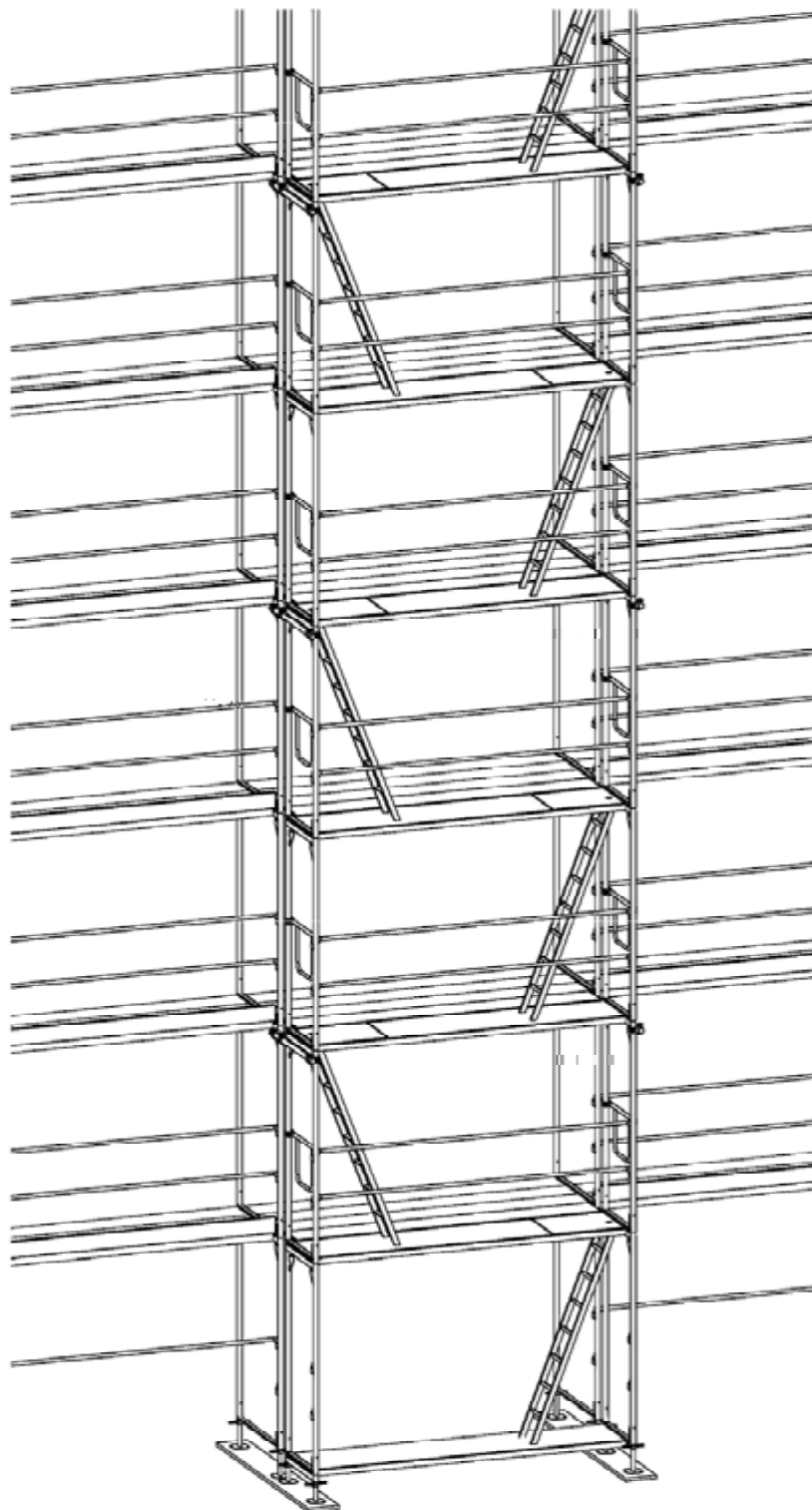
At right angles to the facade:
The forces stated must be increased
by the following values: **2.5 kN**

Frame scaffold ALBLITZ 100 S

Ladder access / Bay length ≤ 3.07 m

Annex C,
page 29

Only the additional measures are shown.

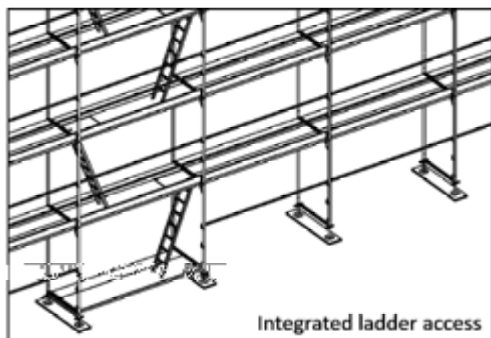


Frame scaffold ALBLITZ 100 S

Ladder access / 3D – layout

Annex C,
page 30

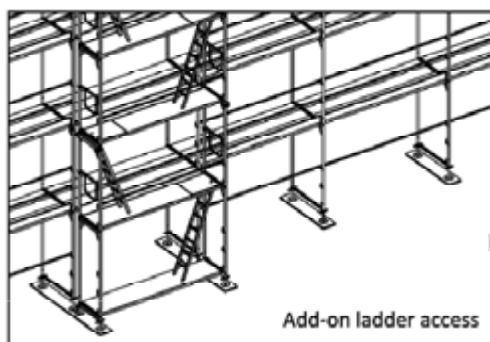
Assembling the stairway or ladder access



Integrated ladder access

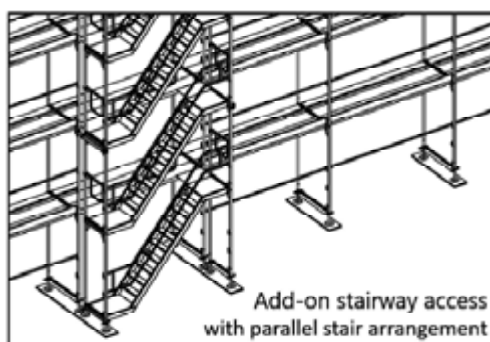
- a) Load class 4¹⁾
with steel U-trapdoor deck (with storey ladder)
2.07 m / 2.57 m bay
- b) Load class 3¹⁾
with all trapdoor decks according to table 3 of
the approval

Only use trapdoor decks on the topmost level for brick guard and roof edge protection scaffolds that are suitable in accordance with table 3 of the approval.



Add-on ladder access

- Load class 3²⁾
with U-robust trapdoor decks or aluminium
U-trapdoor decks (with storey ladder or
integrated ladder)
2.07 m / 2.57 m / 3.07 m bay



Add-on stairway access

- Load class 3
with aluminium platform stairway
2.07 m / 2.57 m / 3.07 m bay

¹⁾ Only use the working scaffold
up to the stated load class.

²⁾ The load class of the working scaffold is independent
of the mentioned load class 3 of the access bay.

Frame scaffold ALBLITZ 100 S

Assembling the stairway or ladder access

Annex C,
page 31

Topmost working level not anchored

Load class 4, bay length ≤ 3.07 m

Partially open facade

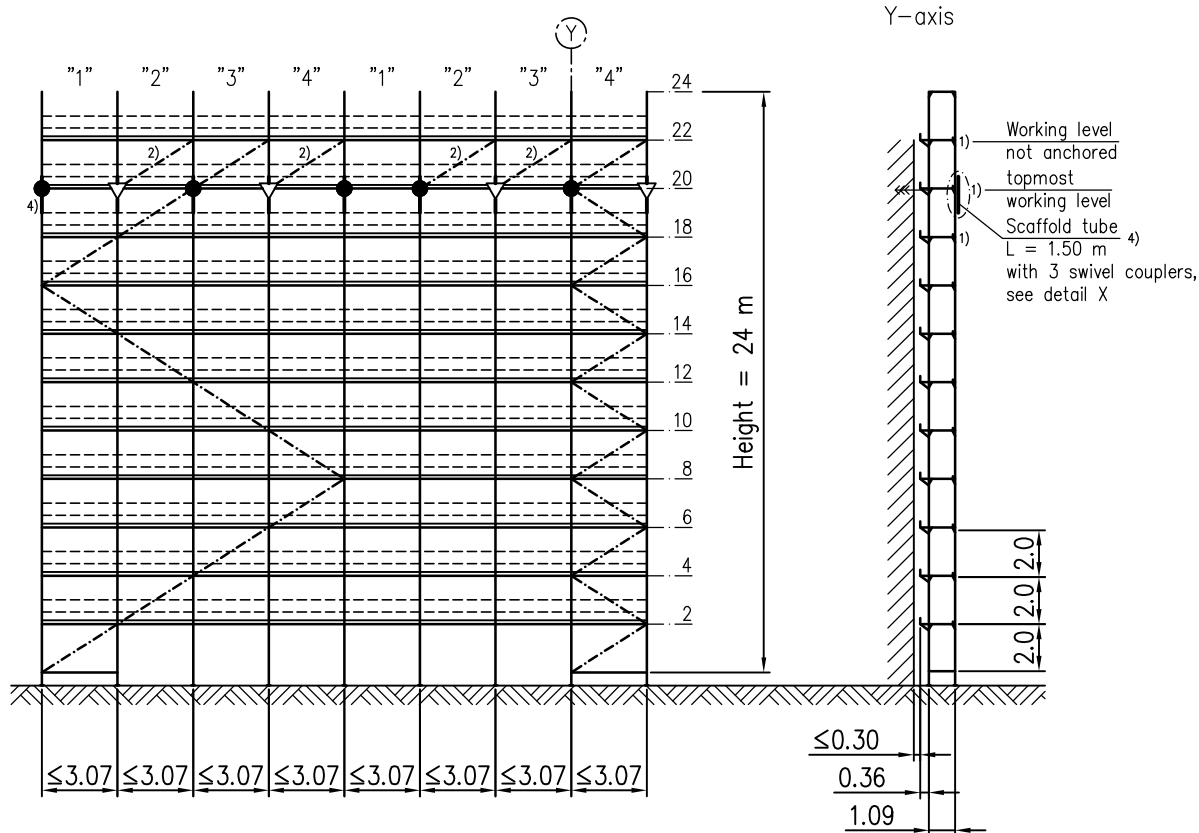
Closed facade

Unclad scaffolding

Basic and bracket configuration 1

Only the additional measures are shown.
Other design variants in accordance
with assembly configuration.

Annex C, pages 1, 2



Additional measures:

Anchoring of the topmost anchor level:

Basic configuration: each node with "long" scaffold tie

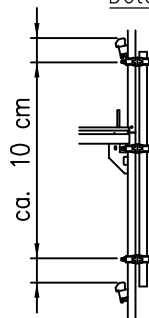
Bracket configuration: 2 V-type anchors per 4 bays, remaining anchors "short" scaffold ties (as shown)

Bracing: 2) **Additionally** install 2 diagonal braces per 4 bays

4) Fit additional scaffold tubes $\varnothing 48.3 \times 3.2$ ($L = 1.50$ m) using 3 swivel couplers to the outer standard in **every** standard axis at the height of the topmost anchor level. (Distance of the outer couplers: approximately 10 cm from guardrail)

Standard joints: 1) Levels tension-resistant (Secure standard joints by means of locking pins!)

Detail X ⁴⁾



- → Scaffold tie "short" (only fitted to inner standard)
- ▽ → V-type anchor

Anchor forces in accordance with the assembly variant

Topmost anchor level at right angles to the facade:

3.3 kN	($L_F = 2.07$ m)
3.8 kN	($L_F = 2.57$ m)
4.5 kN	($L_F = 3.07$ m)

Frame scaffold ALBLITZ 100 S

Unclad scaffolding / Basic and bracket configuration 1
Topmost working level not anchored / Load class 4 (≤ 3.07 m)

Annex C,
page 32

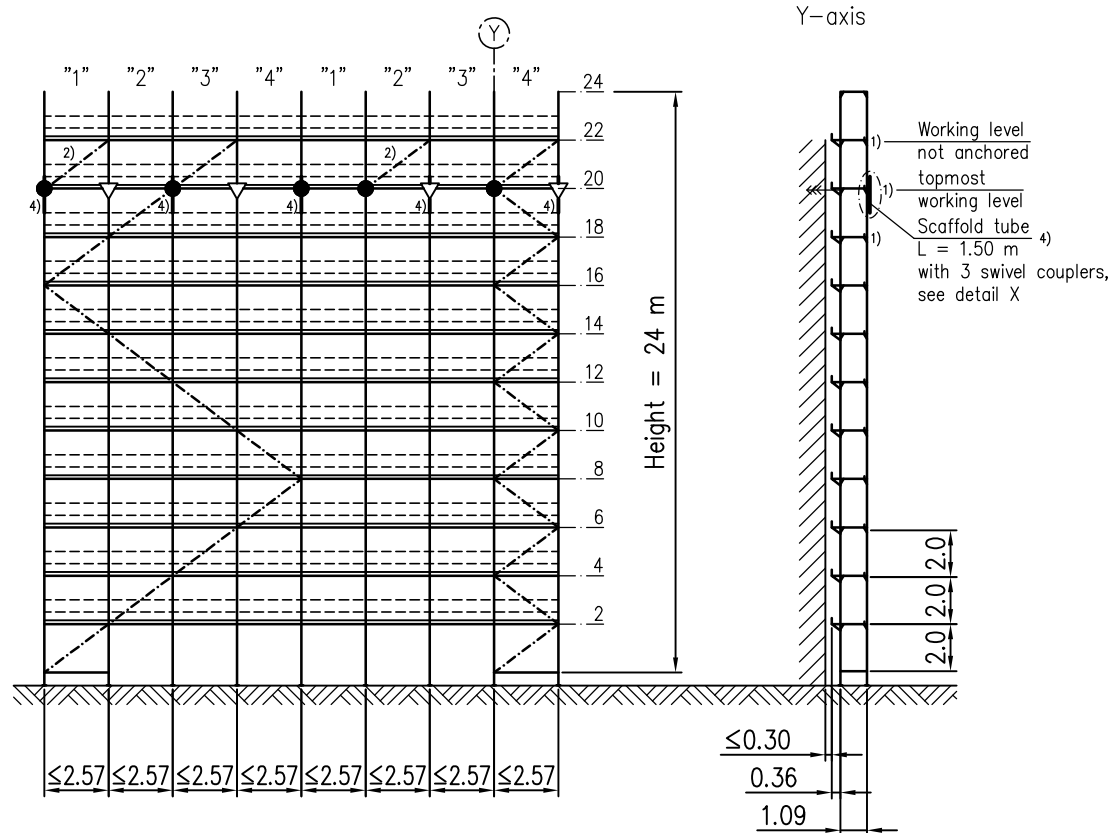
Topmost working level not anchored
Load class 5, bay length ≤ 2.57 m

Partially open facade
Closed facade
Unclad scaffolding
Basic and bracket configuration 1

Not applicable to EXP-frames
(Tilting pin frame)

Only the additional measures are shown.
Other design variants in accordance
with assembly configuration.

Annex C, pages 9, 10



Additional measures:

Anchoring of the topmost anchor level:

Basic configuration: each node with "long" scaffold tie

Bracket configuration: 2 V-type anchors per 4 bays, remaining anchors "short" scaffold ties (as shown)

Bracing: 2) **Additionally** install 1 diagonal brace per 4 bays
4) On every second standard axis at the height of the topmost anchor level additional scaffold tubes $\varnothing 48.3 \times 3.2$ ($L = 1.50$ m) must be fitted to the outer standard using 3 swivel couplers.
(Distance of the outer couplers: approximately 10 cm from guardrail)

Standard joints: 1) Levels tension-resistant
(Secure standard joints by means of locking pins!)

Anchor forces in accordance
with the assembly variant

Topmost anchor level
at right angles to the facade:

3.3 kN ($L_F = 2.07$ m)
3.8 kN ($L_F = 2.57$ m)

Frame scaffold ABLITZ 100 S

Unclad scaffolding / Basic and bracket configuration 1
Topmost working level not anchored / Load class 5 (≤ 2.57 m)

Annex C,
page 33

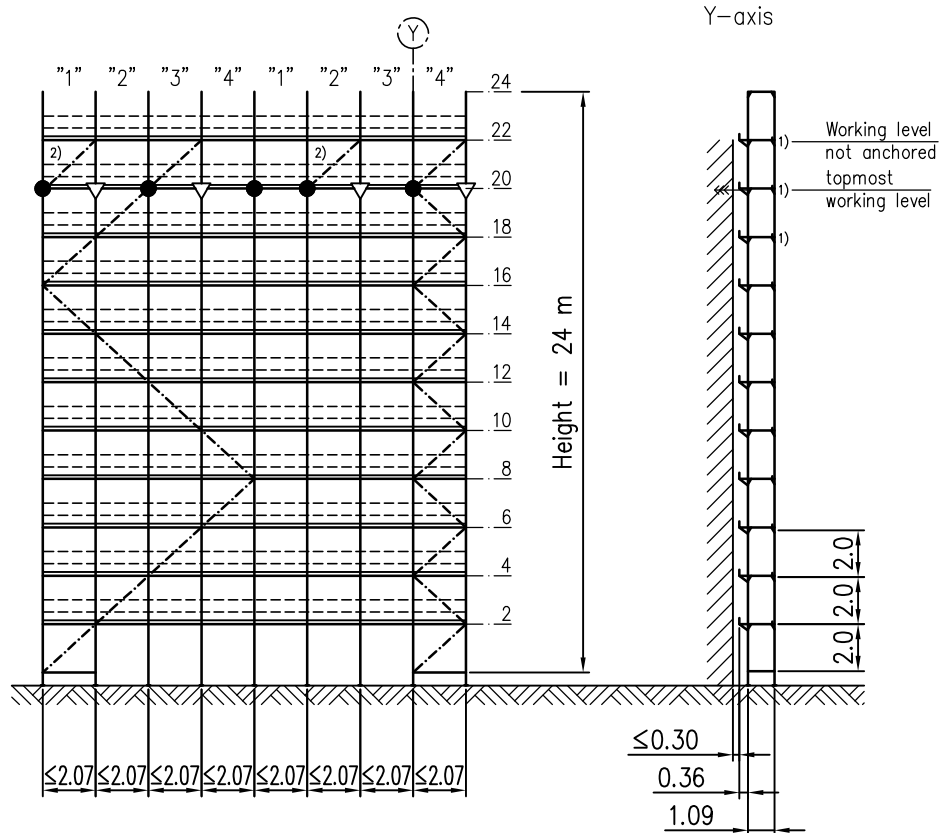
Topmost working level not anchored
Load class 6, bay length ≤ 2.07 m

Partially open facade
Closed facade
Unclad scaffolding
Basic and bracket configuration 1

Not applicable to EXP-frames
(Tilting pin frame)

Only the additional measures are shown.
Other design variants in accordance
with assembly configuration.

Annex C, pages 9, 10



Additional measures:

Anchoring of the topmost anchor level:

Basic configuration: each node with "long" scaffold tie

Bracket configuration: 2 V-type anchors per 4 bays, remaining
anchors "short" scaffold ties (as shown)

Bracing: 2) **Additionally** install 1 diagonal brace per 4 bays

Standard joints: 1) Levels tension-resistant

(Secure standard joints by means of locking pins!)

● → Scaffold tie "short"
(only fitted to inner standard)

▽ → V-type anchor

Anchor forces in accordance
with the assembly variant

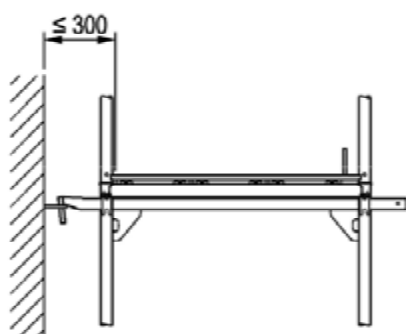
Topmost anchor level
at right angles to the facade:

3.3 kN ($L_F = 2.07$ m)

Frame scaffold ABLITZ 100 S

Unclad scaffolding / Basic and bracket configuration 1
Topmost working level not anchored / Load class 6 (≤ 2.07 m)

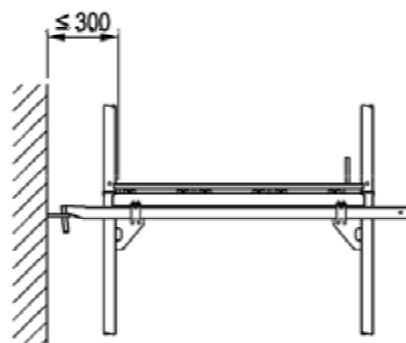
Annex C,
page 34



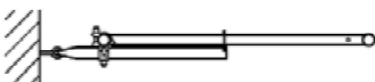
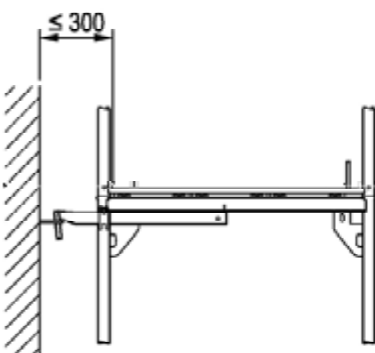
Scaffold tie "long"

Connected to the inner and outer post
by means of 2 standard couplers.

or



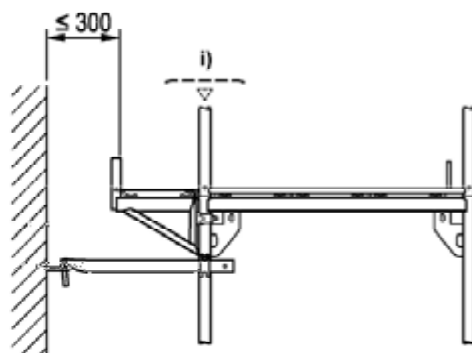
Connected to the gusset plates by
means of 2 gusset plate couplers.



Quick-release anchor

(alternatively to scaffold tie "long")

Connected by means of 2 standard couplers
to the inner post. (Only for basic configurations)



Scaffold tie "short"

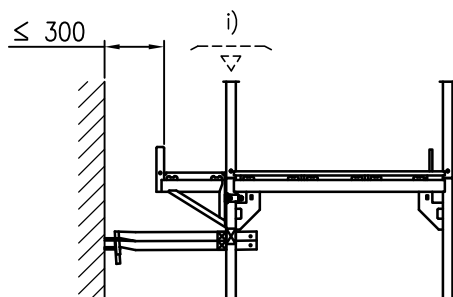
Connected by means of a standard
coupler to the inner post.

i) Inner brackets:
Gap cover between
main and bracket deck

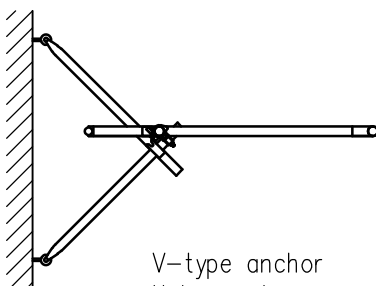
Frame scaffold ALBLITZ 100 S

Anchorage (scaffold ties "long" / "short" ; quick-release anchor)

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One scaffold tie connected to the post. Second
scaffold tie connected to the first wall tie.
Alternatively:
Both scaffold ties connected to the post.



V-type anchor
V-type anchors are anchor pairs arranged
in a V-shape, connected to the inner
standard by means of standard couplers
and have an inclination of $\pm 45^\circ$ vis-a-vis
the frame level.

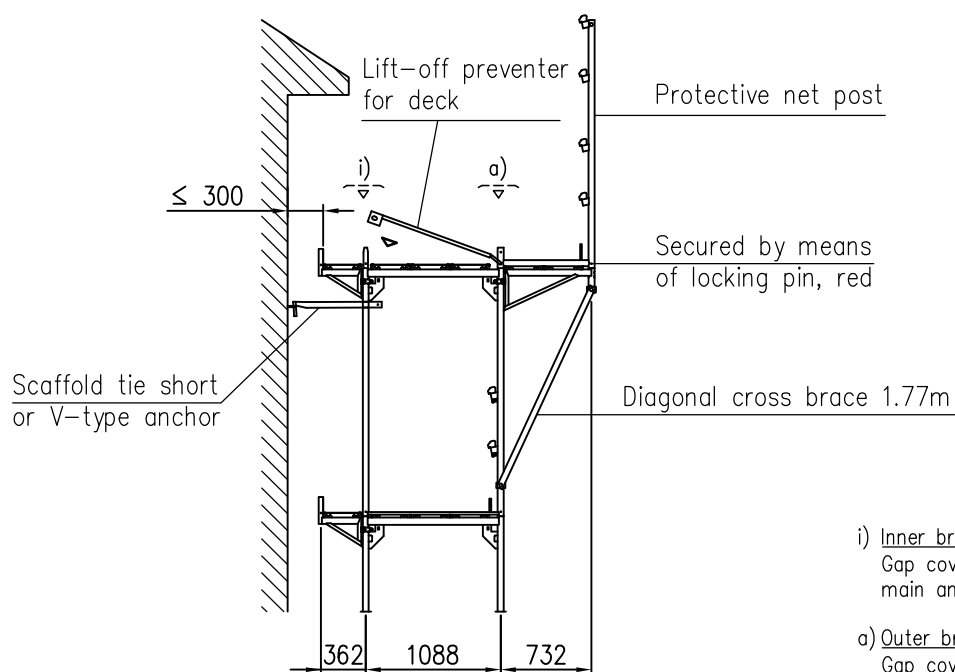
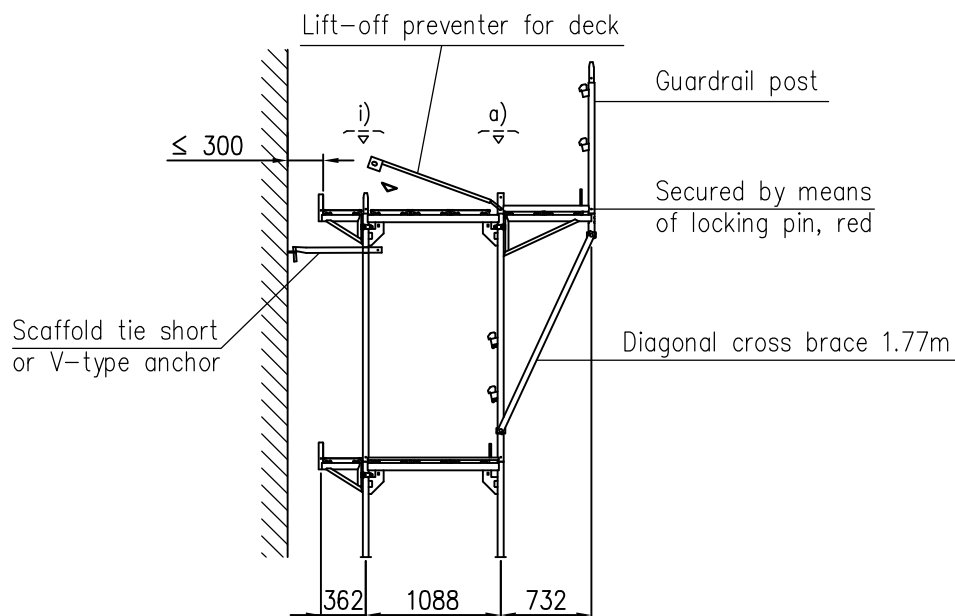
i) Inner brackets:
Gap cover between
main and bracket deck

Frame scaffold ABLITZ 100 S

Anchorage (V-type anchor)

Annex C,
page 36

Bracket configuration 2 (with inner bracket 0.36 m and outer bracket 0.73 m) Anchorage according to respective assembly configuration

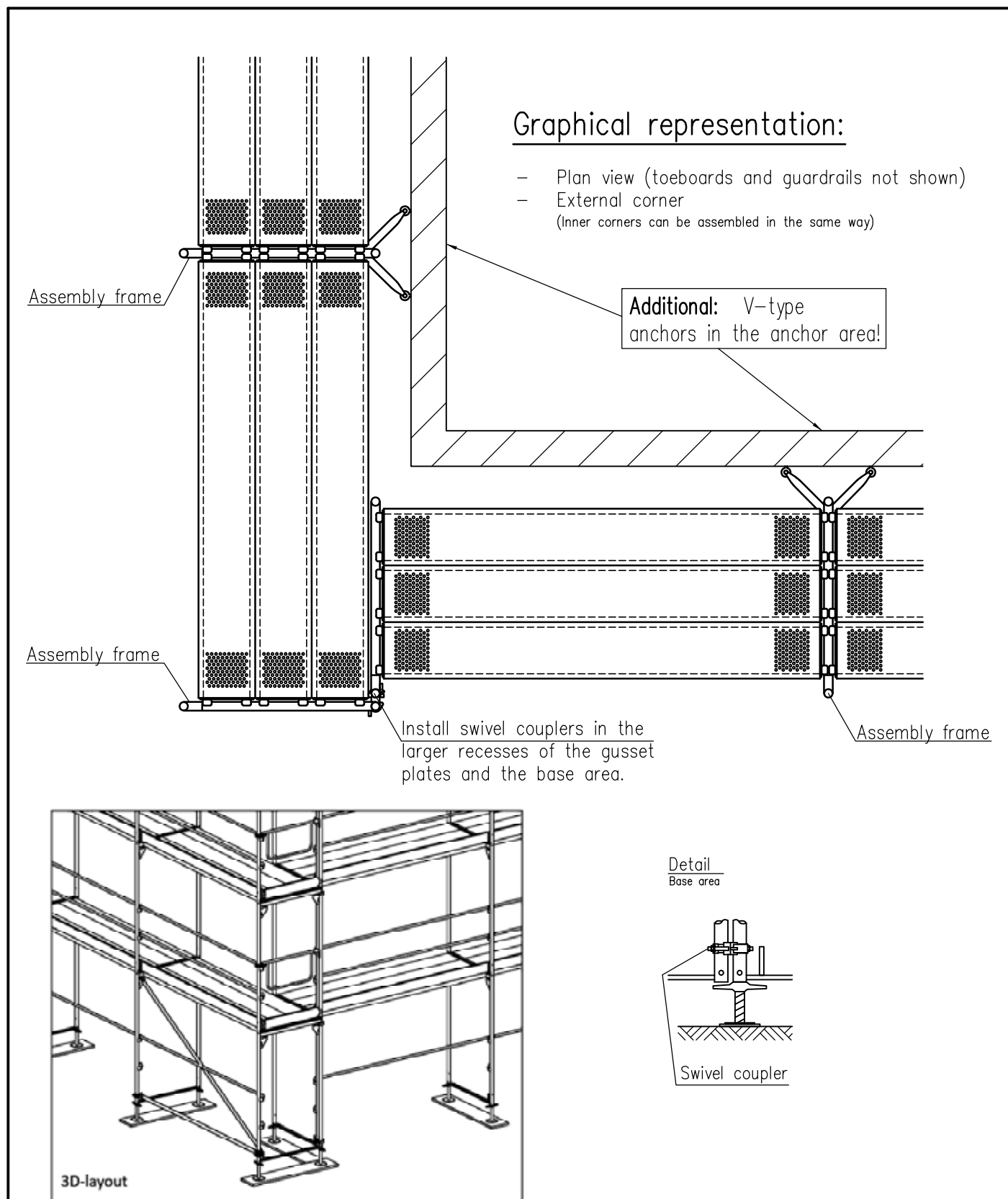


- i) Inner brackets:
Gap cover between
main and bracket deck
- a) Outer brackets:
Gap cover or
telescopic gap cover
between main and
bracket deck

Frame scaffold ALBLITZ 100 S

Bracket configuration 2

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Frame scaffold ALBLITZ 100 S

Corner formation

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