



Solid Structures,
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Scaffold &
Formwork
System

HScaffX

H-Frame Facade Scaffold System



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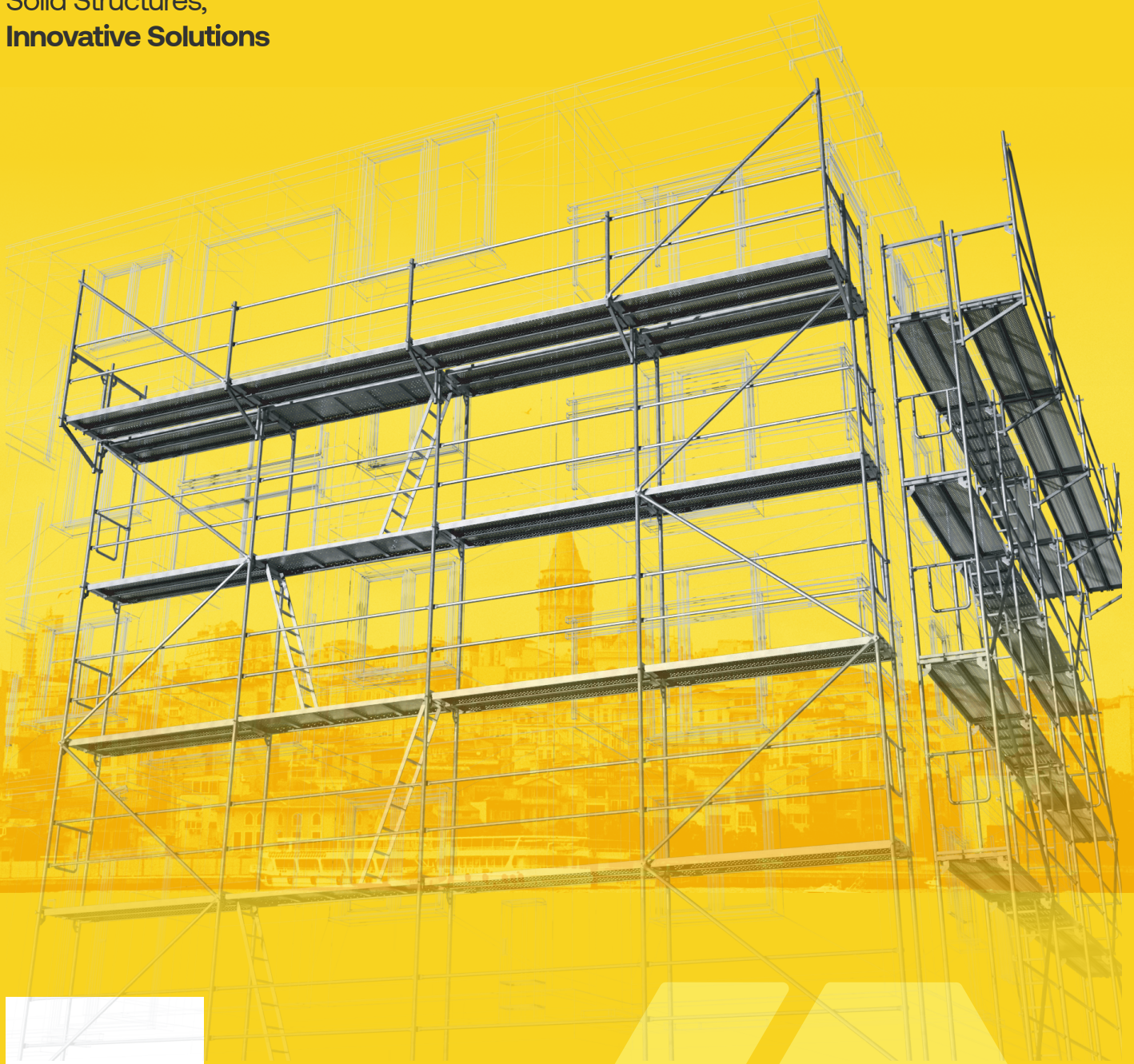
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• Durable Structure • Flexible Use • Easy Installation

2026

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H-Frame Facade Scaffold System

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User Manual for USF GROUP H-Type Scaffold System

This user manual has been prepared by USF GROUP to provide information on the safe assembly, disassembly, and usage procedures of the H Type Facade Scaffold System and its components. It outlines important safety considerations that must be followed during installation and dismantling.

The scaffold system must only be installed, dismantled, and used by trained and authorized personnel. USF GROUP reserves the right to make technical changes to its scaffold systems.

H Type Safety Scaffold System Components

- H Frame
- Half H Frame
- "L" Frame
- Half "L" Frame
- Asymmetric Frame
- Steel Platform
- Staircase Steel Platform
- Toe Board
- Console Bracket
- Ledger
- Diagonal Brace
- Base Plate
- Adjustable Jack
- Wall Tie Rod
- Side Guardrail

Load Class	Uniformly Distributed Load q_1 kN/m ²	Point Load Acting on Area 500mm x 500mm F_1 kN	Point Load Acting on Area 200mm x 200mm F_2 kN	Partial Area Load	
				q_2 kN/m ²	Partial Area Coefficient $a_{\geq 1}$
1	0,75 ²	1,50	1,00	---	---
2	1,50	1,50	1,00	---	---
3	2,00	1,50	1,00	---	---
4	3,00	3,00	1,00	5,00	0,4
5	4,50	3,00	1,00	7,50	0,4
6	6,00	3,00	1,00	10,00	0,5

¹ See 6.2.2.4
² See 6.2.2.4

USF GROUP's H Type safety scaffold system complies with the load-bearing capacity requirements defined in EN12810 and EN12811 standards. When fully assembled, the scaffold can achieve a uniform load capacity of 300 kg/m² depending on the working platform class. The table above shows the allowable loads per EN12811.

H-Frame Facade Scaffold System

1.

Adjustable Jack

2.

Base Plate

3.

Steel Platform

4.

H Frame

5.

Ledger

6.

Toe Board

7.

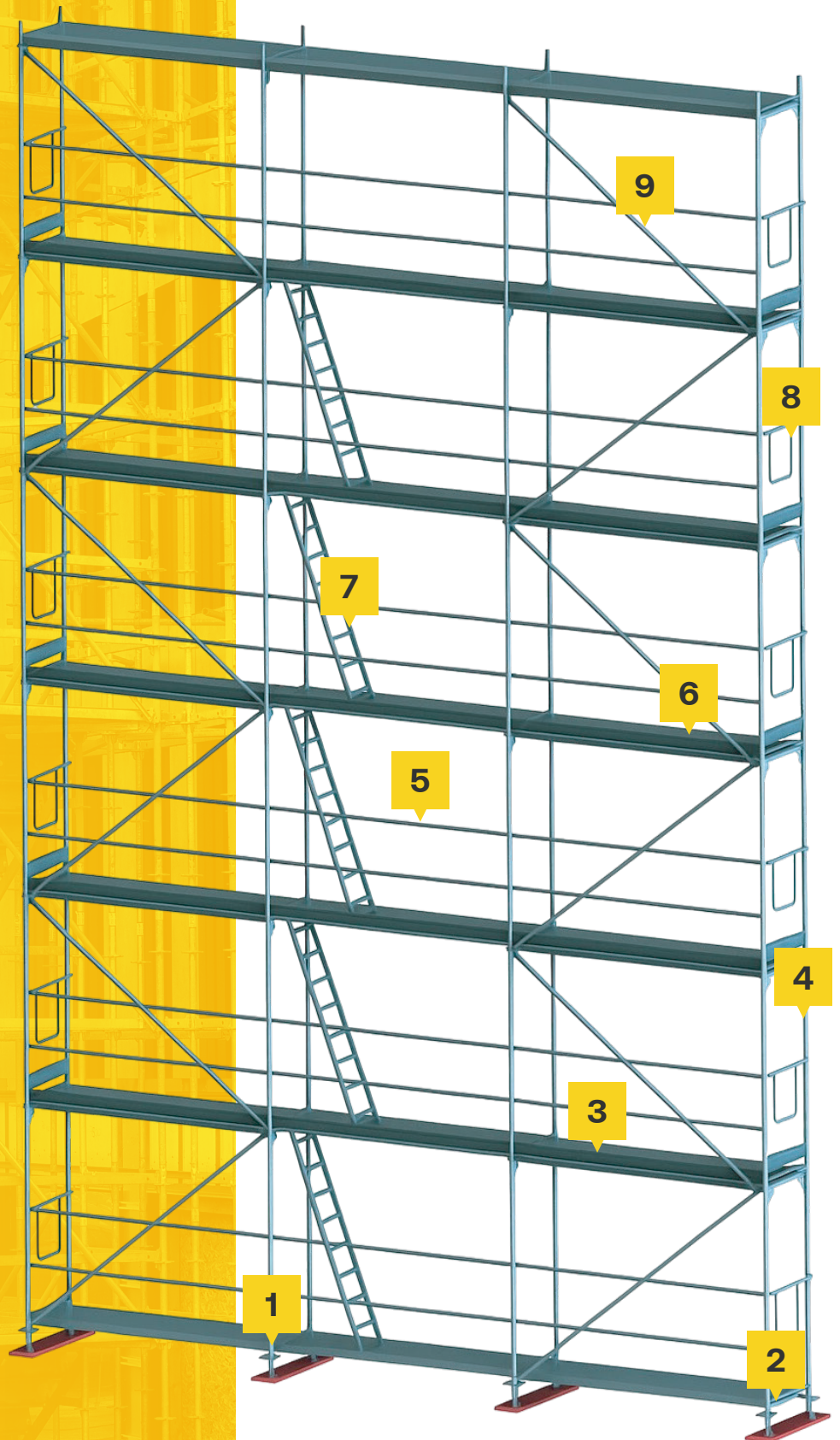
Staircase Steel Platform

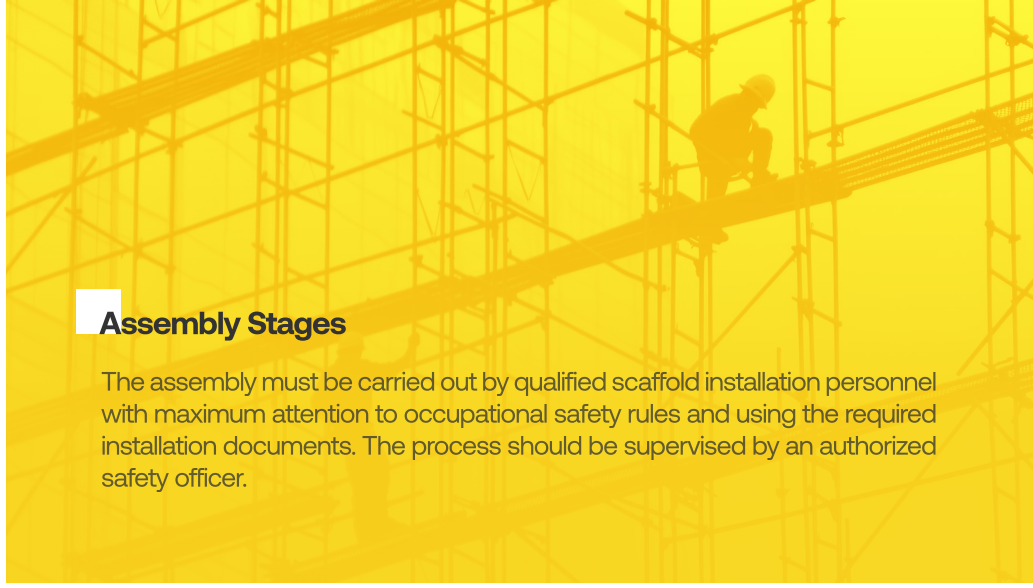
8.

Side Guardrail

9.

Diagonal Brace





Assembly Stages

The assembly must be carried out by qualified scaffold installation personnel with maximum attention to occupational safety rules and using the required installation documents. The process should be supervised by an authorized safety officer.



Scan to view on the web.

Placement of Adjustment Spindles and Base Plates

Adjustment spindles are placed according to the scaffold project, and the initial elevation adjustment is made. The base plates are mounted onto the adjustment spindles.

Stage

1

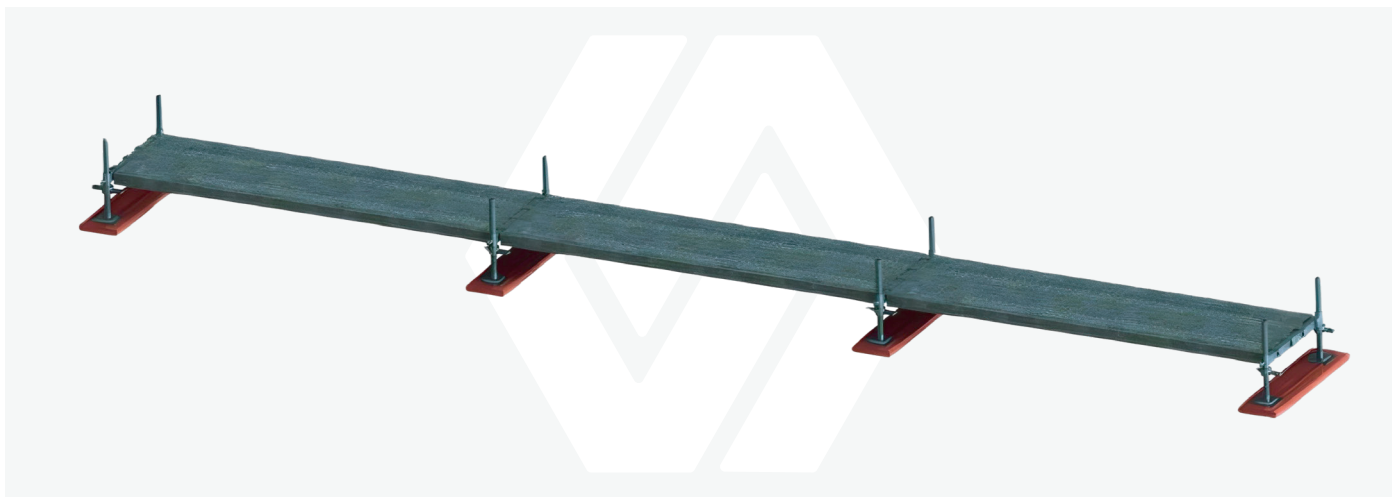


Placement of First-Level Steel Platforms

The first-level steel platforms, especially those positioned beneath the stair steel platform, must be placed carefully and in accordance with the plan. If necessary, the stair steel platform may also be installed in other regions where no platform exists.

Stage

2

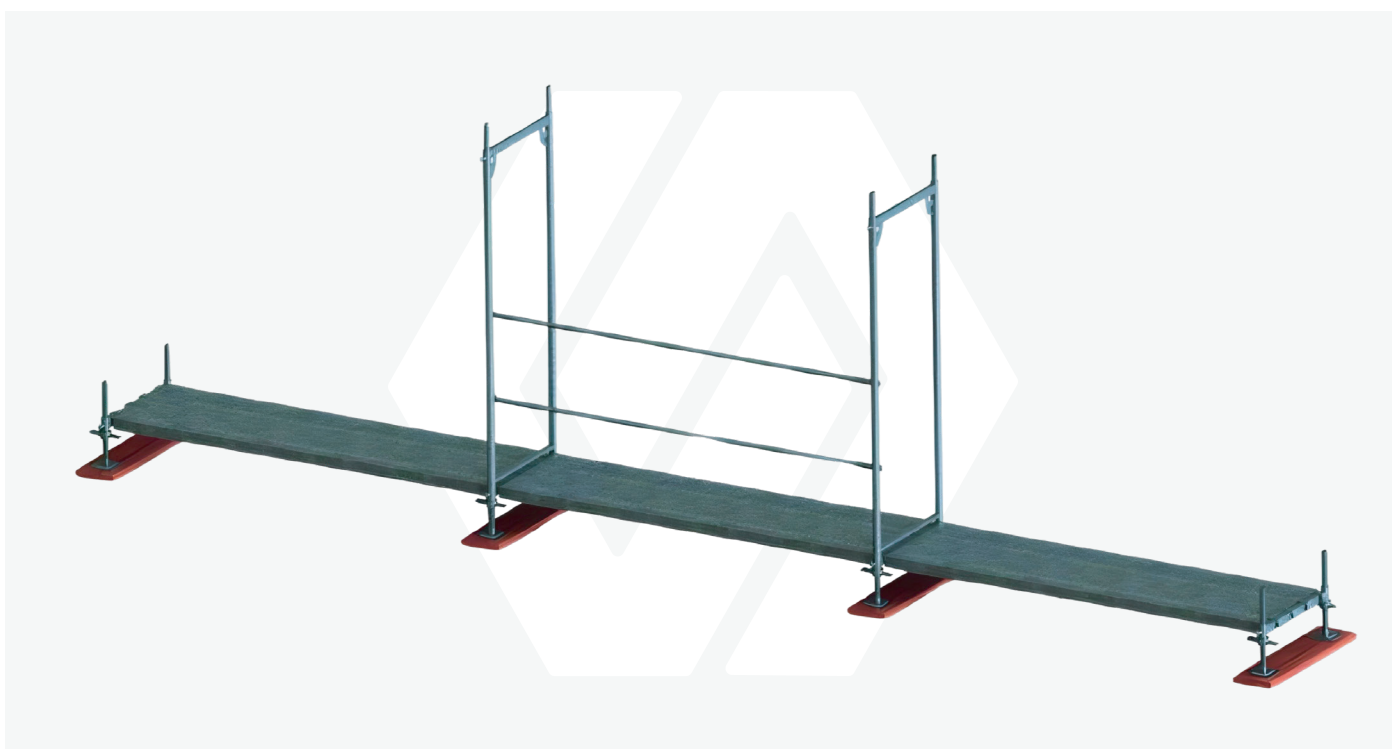


Placement of Frames

The first-level frames should be placed carefully in line with the initial settings determined at the beginning.

Stage

3

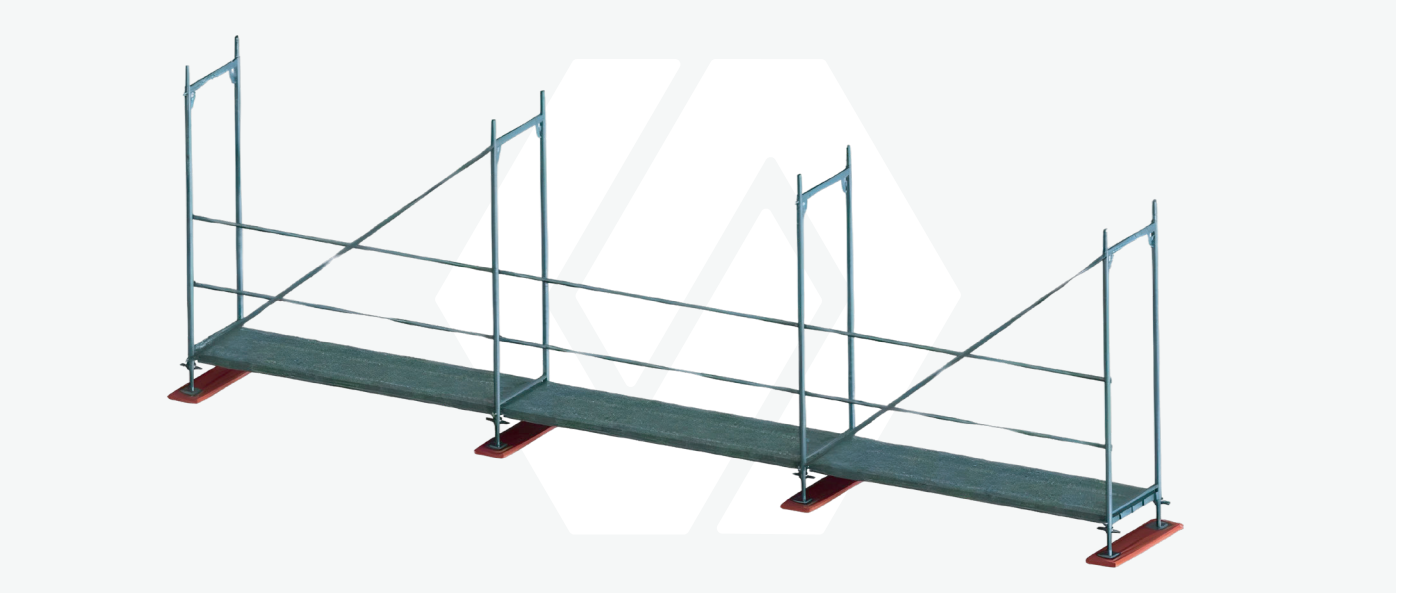


Installation of Guardrails and Diagonal Braces

Guardrails and diagonal braces must be securely installed onto the first-level frames, and the scaffold must be properly leveled.

Stage

4



Placement of the Stair Steel Platform

After the first level is installed, the stair steel platform for the next level is placed first, followed by the careful placement of the remaining steel platforms.

Stage

5

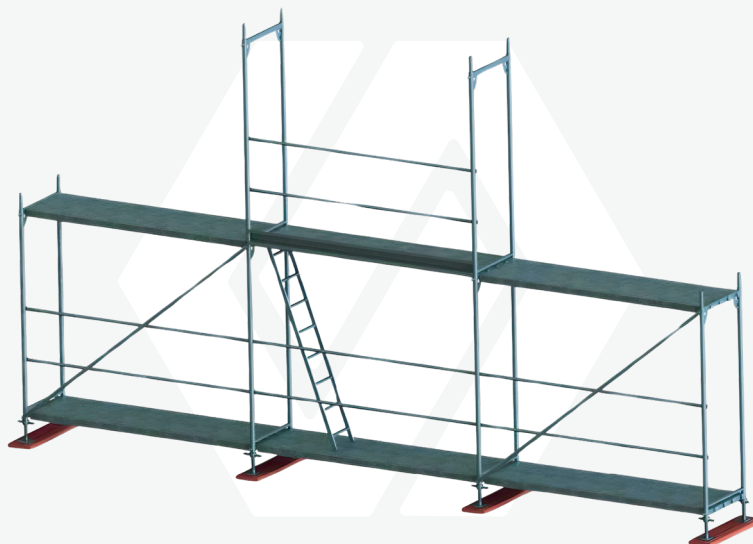


Placement of Second-Level Frames

After completing the installation of the first level and performing the leveling check, the second-level frames should be placed carefully.

Stage

6

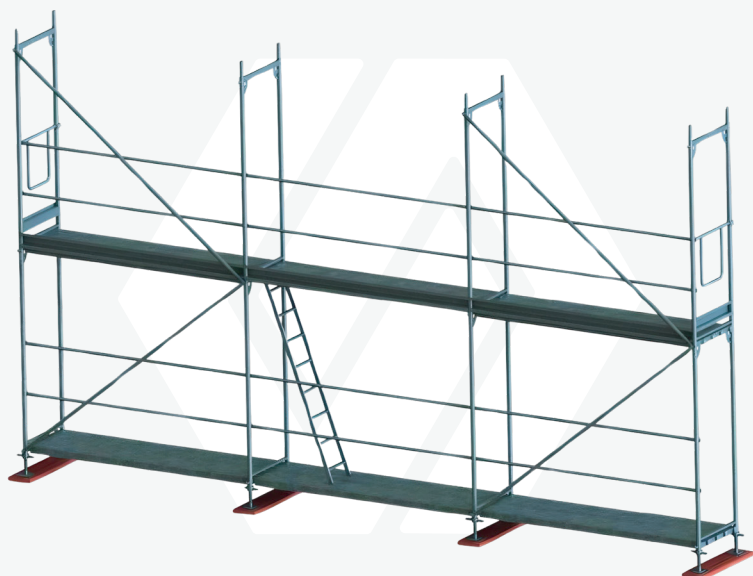


Installation of Second-Level Guardrails and Toe Boards

Second-level guardrails and toe boards must be carefully assembled.

Stage

7

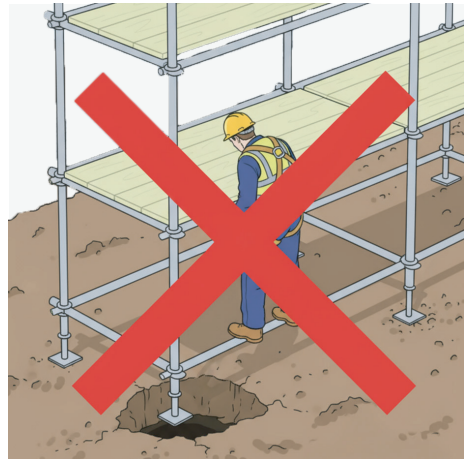
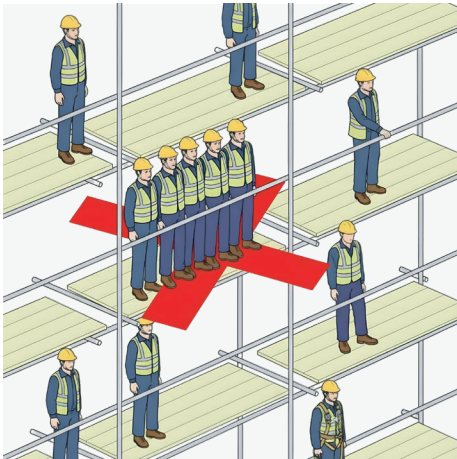
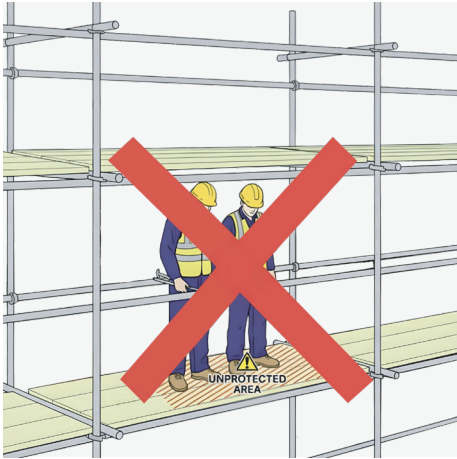
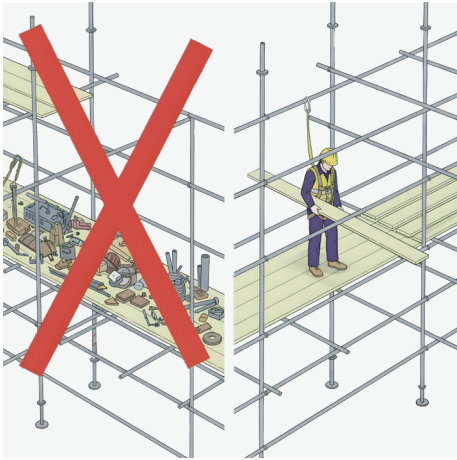


Scaffold Assembly and Dismantling Rules

- Scaffold assembly and dismantling operations must be carried out by personnel who have received and certified training, in accordance with the scaffold project and load capacity.
- Before starting assembly, the ground where the scaffold will be installed must be checked to ensure it has sufficient bearing capacity; protective measures must be taken against any risk of settling or collapse.
- During work on the scaffold, if there are situations that may endanger the environment or workers during assembly or dismantling, occupational safety rules must be followed and necessary measures must be taken.
- Warning signs such as “Caution: Working at Height!” and “Entry is Dangerous and Prohibited!” must be placed in visible areas under the scaffold.
- During scaffold assembly and dismantling, no climbing or swinging movement should be made on the scaffold elements. Necessary personal safety materials must be used.
- Personnel must use fall-arrest equipment and personal protective gear (helmets, safety gloves, safety shoes, goggles, etc.).
- Scaffold materials (frames, braces, platforms, etc.) must not be damaged or deformed.
- Trapdoors on stair platforms must remain closed.
- The scaffold must be properly grounded against electrical hazards, and grounding must be ensured for the entire area.
- The scaffold must be tied to the building or a solid carrier structure at required vertical and horizontal intervals specified in the project. Tie connections must comply with the project.
- Working scaffolds must be checked for stability and securely fastened (via clamps, etc.) both vertically and horizontally. Scaffold tags must be used; only structurally safe scaffolds are marked GREEN, unsafe ones must be marked RED.
- According to the scaffold inspection form, the responsible site supervisor must ensure scaffold inspection and remedy any deficiencies before use.

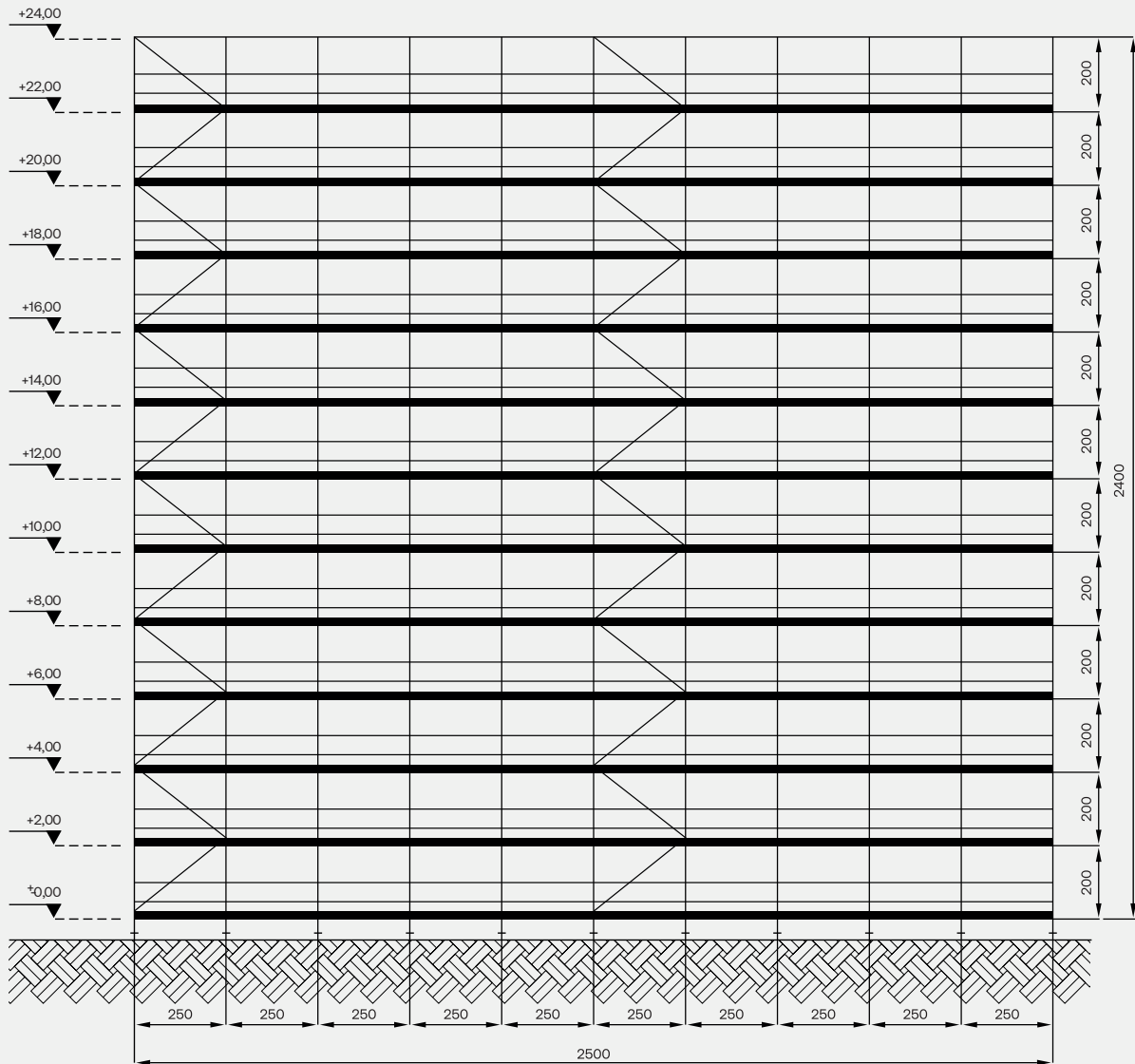


- At the beginning of each shift, the scaffold's working conditions and stability must be checked.
- Scaffolds must be inspected before and after every storm.
- If wind speed exceeds 40 km/h, or if there is a $\pm 20^{\circ}\text{C}$ daily temperature difference, or if the ground is slippery due to ice or frost, all work at height must be suspended.
- If the scaffold becomes slippery due to rain, snow, ice, or similar reasons, anti-slip precautions must be taken.
- Defects observed on scaffolds must be repaired immediately, reinforced, or replaced with new components.
- Adequate lighting must be provided if scaffold assembly or dismantling is performed at night.
- No load exceeding the scaffold's design load or 300 kg/m^2 may be applied.
- Before dismantling, the site supervisor must ensure all safety precautions are taken.
- Before dismantling, no braces or tie components should be removed. However, after dismantling begins, guardrails between two frames may be removed for material lowering.
- Scaffold dismantling must begin from the top level.
- During dismantling, diagonal braces must be removed only after the planks are removed, and work must proceed from top to bottom.
- No dismantled material should be thrown from height under any circumstances; materials must be lowered safely using ropes or similar equipment.
- Dismantling must be carried out by the same personnel who performed the assembly, in accordance with scaffold element types and dimensions.



Wall Tie Layout for Scaffold in Uncladded Condition

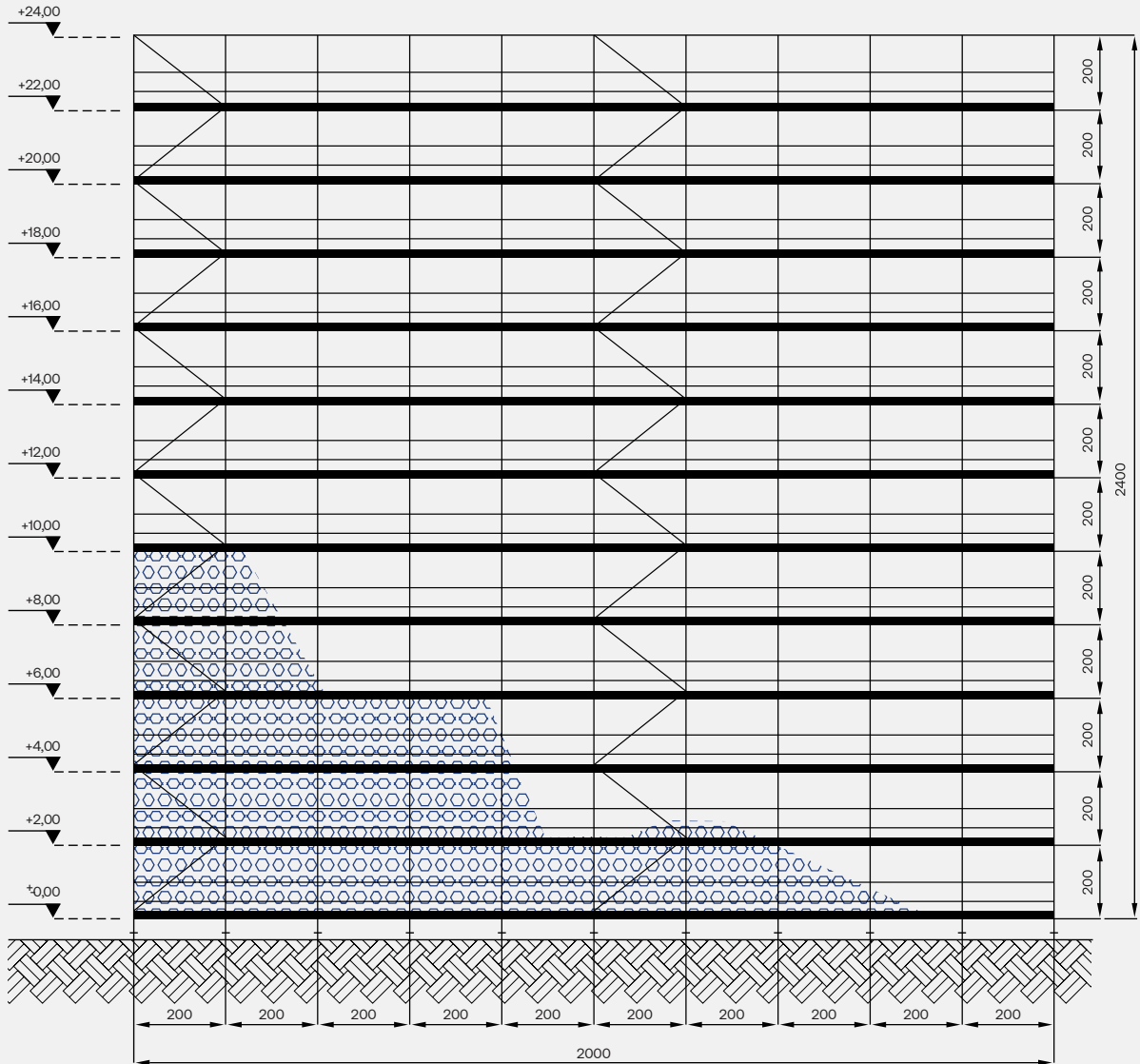
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The tie layout is provided for informational purposes. The exact tie layout of the scaffold must be examined in the scaffold project or the structural (static) report and must be applied in accordance with those documents.

Wall Tie Layout for Scaffold with 50% Air-Permeable Net Covering

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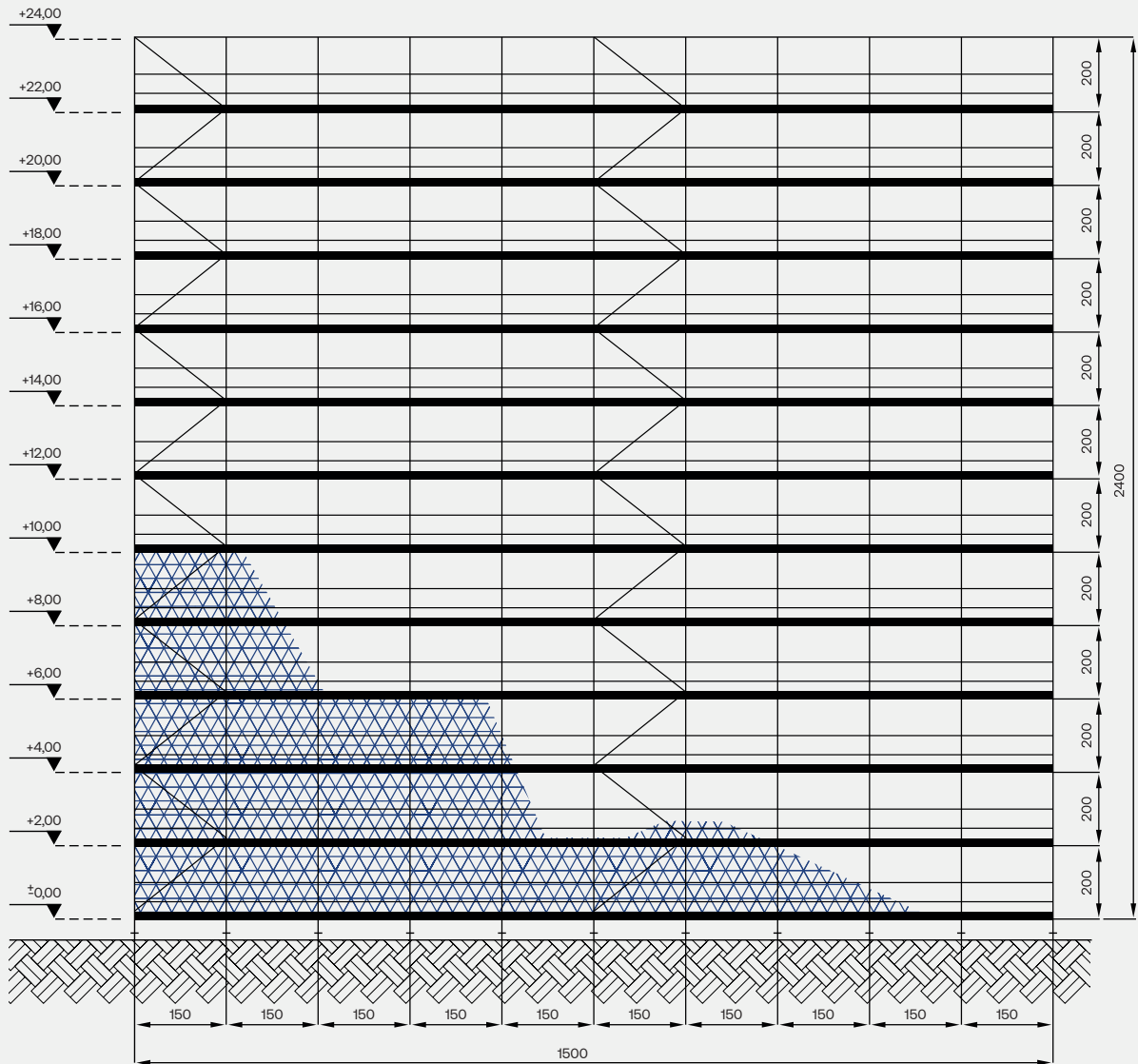


Permeable Mesh Cover

Tie layout is provided for informational purposes only. The exact tie layout of the scaffold must be reviewed in the scaffold project or structural (static) report and must be applied accordingly.

Anchor Layout for Scaffold Covered with a Non-Permeable Material

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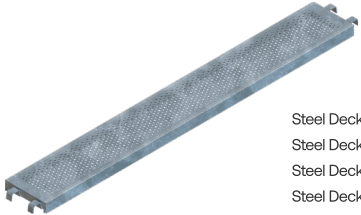


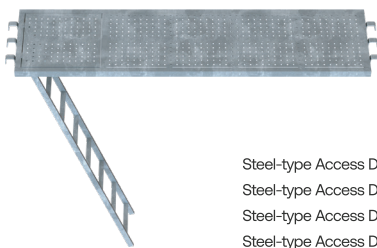

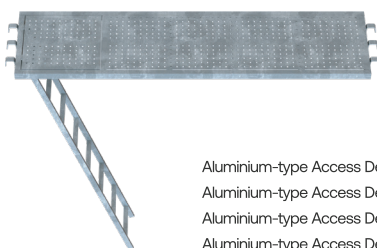







Non-Permeable Covering

The anchor layout is provided for informational purposes only. The exact anchor layout of the scaffold must be reviewed in the scaffold project or the structural (static) report and must be implemented in accordance with those documents.

Products

	KG	Product Code		KG	Product Code
H Frame 75x200  Scaffolding Frame 200x75	16,80 KG	FM.100.C01:1001	Half "L" Frame  Scaffolding "Half L" Frame	5,60 KG	FM.140.C01:1040
"L" Frame  Scaffolding "L" Frame 200x75	9,30 KG	FM.130.C01:1030	Asymmetric Frame  Asymmetric Frame 200x75	13,45 KG	FM.120.C01:1020
Half H Frame 75x100  Scaffolding Half Frame	10,50 KG	FM.110.C01:1010	Console 75  Scaffolding Console 75	6,6 KG	PA.750.C03:1601
			Console 35  Scaffolding Console 35	4,7 KG	PA.350.C03:1602

Products

	KG	Product Code		KG	Product Code			
Steel Platform  <p>Steel Deck 32 x 300 Steel Deck 32 x 250 Steel Deck 32 x 200 Steel Deck 32 x 150 Steel Deck 32 x 100</p>	9,51 KG	FM.300.C02.1401	Starting Base  <p>Starting Base</p>	2,385 KG	FM.150.C01.1050			
	12,18 KG	FM.250.C02.1402		Diagonal Brace  <p>Diagonal Brace 300 Diagonal Brace 250 Diagonal Brace 200 Diagonal Brace 150 Diagonal Brace 100</p>	5,80 KG	FM.300.C01.1211		
	14,78 KG	FM.200.C02.1403			6,70 KG	FM.250.C01.1212		
	17,38 KG	FM.150.C02.1404			7,50 KG	FM.200.C01.1213		
		FM.100.C02.1405			8,40 KG	FM.150.C01.1214		
					FM.100.C01.1215			
Stair Steel Platform  <p>Steel-type Access Deck 300 Steel-type Access Deck 250 Steel-type Access Deck 200 Steel-type Access Deck 150</p>	35,00 KG	FM.300.C02.1450	Horizontal Ledger  <p>Ledger 300 Ledger 250 Ledger 200 Ledger 150 Ledger 100</p>	5,80 KG	FM.300.C01.1211			
		FM.250.C02.1452		6,70 KG	FM.250.C01.1212			
		FM.200.C02.1454		7,50 KG	FM.200.C01.1213			
		FM.150.C02.1456		8,40 KG	FM.150.C01.1214			
					FM.100.C01.1115			
Stair Aluminum Platform  <p>Aluminium-type Access Deck 300 Aluminium-type Access Deck 250 Aluminium-type Access Deck 200 Aluminium-type Access Deck 150</p>	21,50 KG	FM.300.C02.1451	Base Jack  <p>Base Jack 50 Base Jack 70 Base Jack 100</p>	2,65 KG	FM.050.C03.1301			
		FM.250.C02.1453		Swivel Coupler  <p>Swivel Coupler 48x60 Forged Swivel Coupler 48x48 Forged</p>	1,15 KG	PA.802.C02.1503		
		FM.200.C02.1455			Fixed Coupler  <p>Fixed Coupler 48x60 Forged Fixed Coupler 48x48 Forged</p>	1,10 KG	PA.803.C02.1504	
		FM.150.C02.1457				Wall Ties  <p>Wall Fixing Kit</p>	0,80 KG	PA.810.C02.1509
							Toe Board  <p>Steel Toeboard 75-100-150-200-250-300</p>	2,35 KG
			3,10 KG	FM.250.C02.1805				
End Guardrail  <p>Scaffolding End Guardrail</p>	3,9 KG	FM.180.C03.1080		3,92 KG	FM.200.C02.1804			
				4,70 KG	FM.150.C02.1803			
Side Guardrail 	1,30 KG	FM.-----			FM.100.C02.1802			
					FM.075.C02.1801			

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