

The highly flexible scaffolding system for all kind of applications



IMPORTANT:

Any safety provisions as directed by the appropriate governing agencies must be observed when using our products.

The pictures in this document are snapshots of situations at different stages of assembly, and therefore are not complete images. For the purpose of safety, they should not be deemed as definitive.

All instructions regarding safety and operations contained in this document, and the data on stress and loads must be respected. ULMA Construcción's Technical Department must be consulted any time that field changes alter our equipment installation drawings.

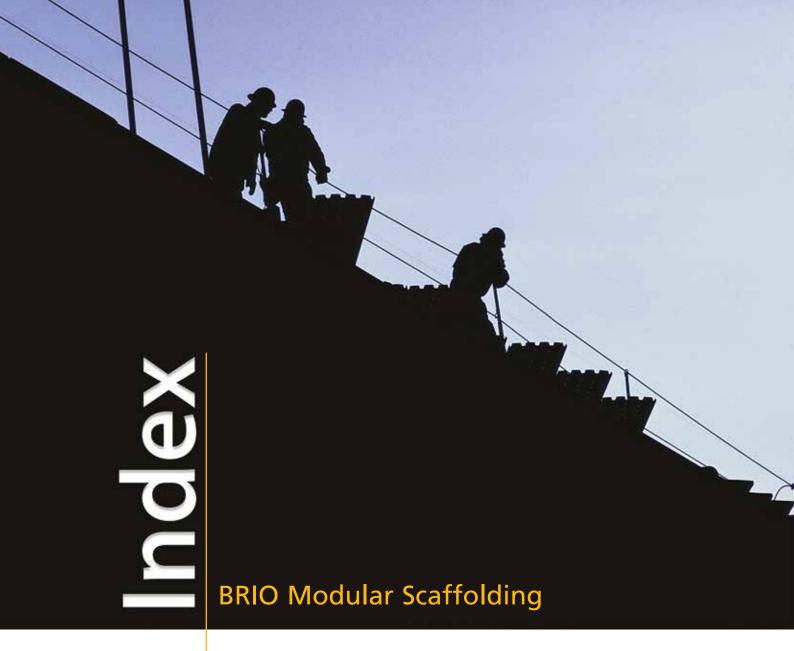
The loads featured in this document, related to the basic parts of the product, are approximate.

Our equipment is designed to work with accessories and parts produced by our company only. Combining such equipment with other brands is not only dangerous without having made all corresponding verifications, it also voids any or all our

The company reserves the right to introduce any modifications deemed necessary for the technical development of the product.

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Safety sign



Control sign



Warning sign



Information sign

Product description

The BRIO Modular Scaffolding meets the highest requirements of different configurations and applications arising in construction projects. It can be used as working area, protection, access or support, for both, new buildings as well as restoration projects.



Moreover, due to its versatility it also covers other fields such as industrial maintenance or leisure and entertainment.

The system is based on standards with collars spaced every 50 cm which have 8 holes to ease the assembly of all its system components, providing great stiffness and overall stability.





The BRIO scaffolding is certified according to the European standards EN 12810-1/2 and EN 12811-1/2/3.









Ministerial Authorisation no. (of the Italian Ministry of Labour and Social Affairs): PROT. 15/VI/12246/14.03.01.01 "BRIO 102" PROT. 15/VI/12245/14.03.01.01 "BRIO 70"

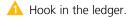


System features

Advantages

- Certified scaffolding according to European standards ensures highest product quality.
- The connections are easily assembled by only one scaffolder due to its mechanism of captive wedges forming rigid joints unaffected of vibrations, diminishing looseness and being capable of bearing high loads. The non-circular node prevents the standards from rolling around on the ground.
- Quick and easy assembly with reduced number of components and tools







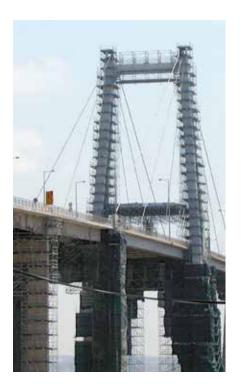
A Insert the wedge.







Standard and ledger are joined.





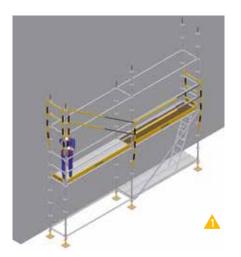
Versatility and flexibility to adapt to any shape or to assemble many different configurations such as

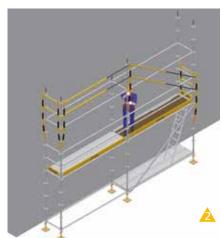


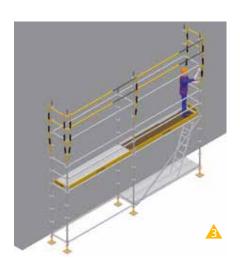
scaffolding towers, stair towers, temporary roofs, footbridges - with a minimal number of different components.

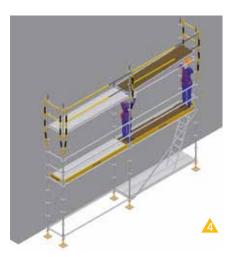


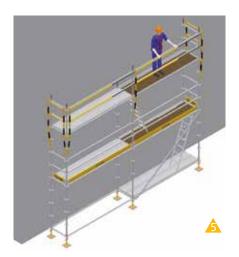
Safe assembly ensured by the use of a safety system consisting of safety guardrail post and telescopic safety ledger as means of collective protection. This system is easily assembled from the ground with its telescopic aluminium-steel ledgers thereby protecting the scaffolder from falls when accessing the upper level by ladders through the trapdoor platform.











▲ Assembly sequence of the safety system

The safety system is verified by tests based on the standard EN 795 for protection against falls from height regarding anchor devices.





Safety guaranteed in the assembly of BRIO scaffolding 🔺



Safe working due to the protection provided by guardrails and toeboards: They are installed at both sides, the outside and if necessary the inside. Toeboards prevent the falling of objects from height. With the BRIO Modular Scaffolding any part of the structure where works are wanted to be carried out can be covered and protected.

In addition, access is completely secure, either through trapdoor platforms or with stairs attached to the scaffolding, each option depending on the height of the scaffolding.



Access via ladder through trapdoor platform



Access via stairs attached to the scaffolding



▲ Working levels protected with guardrails and toeboards



Third-party safety due to protections and configurations such as pedestrian walkways or protection fans which allow of free mobility of pedestrians and vehicles, without the work on the scaffolding structure posing a risk to others.



 Scaffolding standards secured with protecting tubes in pedestrian walkway



Protection fan



Frame Scaffolding even having in common a great number of system components. Common widths of the BRIO Modular Scaffolding and the DORPA Frame Scaffolding when used for façades are 0.7 m and 1.02 m.



A BRIO Modular Scaffolding in the irregular part of the support and DORPA Frame Scaffolding in the upper part

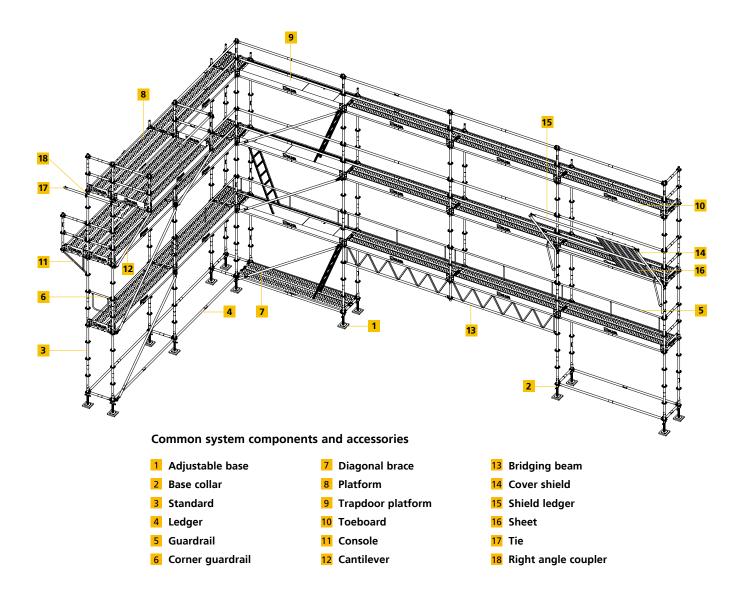


The hot-dip galvanising provides an excellent surface finish and **great durability** resulting in a highly profitable product.

Anti-slip platforms with unintentional disengagement system through safety pin against accidental platform uplifting. Moreover, the provision of hooks on the platforms ensures their proper support on the ledgers, avoiding movements.

There is a wide range of platforms of different lengths and capacities available, all according to European standards EN 12810 and EN 12811.

Basic system components





Solutions

grafsystem: Application software

This software has been developed by **ULMA Construcción** to offer all possible solutions for projects in the application of any product of the range. With **grafsystem**, assembly drawings and quotes including a detailed list of the required material can be obtained for the project in a quick and easy way.

With respect to the BRIO Modular Scaffolding, the software offers two levels of solutions:

- Solutions for quotes: It provides the assembly drawing and the list of required materials for projects with façade scaffolding, scaffolding towers and stair towers in a quick and easy way. It is the user who designs the scaffolding.
- Solutions for layout: Once the building has been drawn in Autocad, grafsystem automatically generates the scaffolding in 3D. Complete assembly drawings and a detailed quote of the required material is obtained for each project. It provides solutions for all issues of façade scaffolding.

In short, this program with the simple introduction of the parameters or geometry of the building through a straightforward interface automatically provides the best solution and all necessary information for each project.



Parameter entry

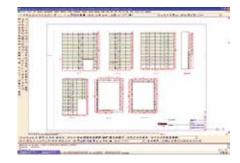


 List of materials - quote, in various formats for editing

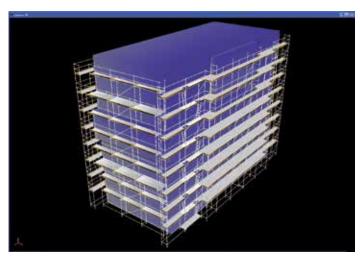




Building geometry

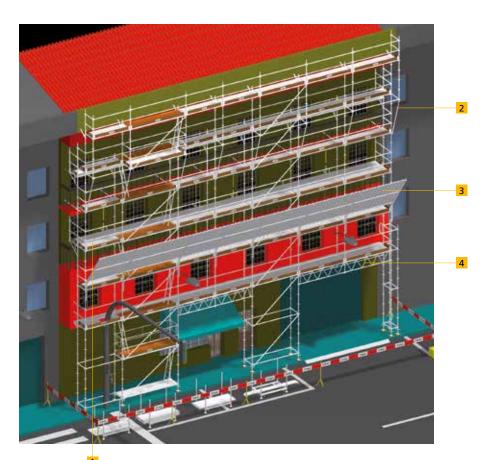


Assembly drawings for the solution in different formats



3D model output

Common solutions



- 1 Console
- 2 Cantilever
- 3 Protection fan
- 4 Bridging beam

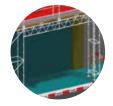


For more information about solutions and erection, please refer to the User's Guide BRIO Modular Scaffolding



Pedestrian walkway:

System enabling pedestrian traffic on pavement under the scaffolding in a comfortable and safe manner.



Bridging beam:

Item to create 4, 5 or 6 m wide vehicle passageways through the scaffolding.



Console:

Item to extend the working area of the platforms at height which can be placed as well on the inside as on the outside. There are three different sizes available to place 1, 2 or 3 additional platforms.



Protection fan:

Protection system to prevent materials from falling down.



Cantilever:

Item designed for the adjustment of the scaffolding shape towards the inside or outside according to balconies or other projecting parts of the building.



Other:

Miscellaneous accessories for the solution of more complex applications in an easy and safe manner.



Applications

BRIO Modular Scaffolding offers solutions for rather simple up to the most complex and diverse applications:



Façade scaffolding / Irregular geometries

It is the most common application where working and access platforms are created to deal with regular and irregular façades. The system perfectly adapts to the geometry, in an easy and safe way.

BRIO scaffolding in façade restoration



Erection of scaffolding towers



Restoration of Basilica of Our Lady of the Pilar, Zaragoza, Spain



Restoration of Saint Mary's Cathedral, Vitoria, Spain



BRIO Modular Scaffolding in inclined façade





Stair towers

With the stair tower configuration of the BRIO Modular Scaffolding, quick and safe access is created to any place of the building site.

The following stair towers for access can be erected:

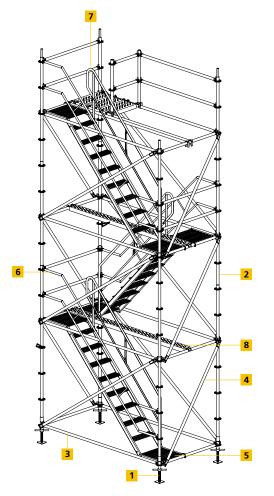
- 3 x 1.5 (4 standards) with complementary platform or landing deck.
- 3 x 1.4 (6 standards).
- 3.4 x 1.5 (8 standards).

Advantages:

- Capable of reaching great heights.
- Movable with crane.
- Stable and safe access surface.
- Stair widths from 0.70 m to 1.02 m according to the requirements.
- Different stair landings possible.
- Stair assembly attached to the scaffolding.
- Aluminium or steel stair frames.

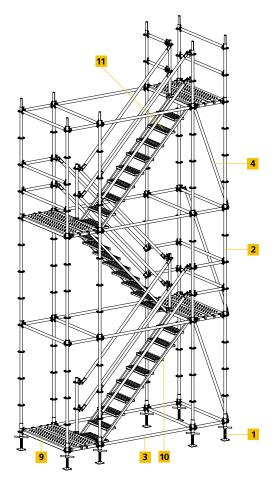


Stairs to access the pier head formwork



Stair tower 3 x 1.5 with aluminium stair frame

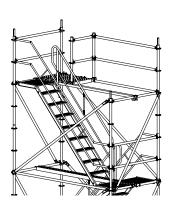




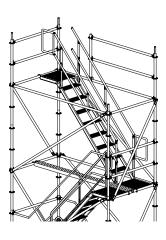
△ Stair tower 3.4 x 1.5 with steel stair frame



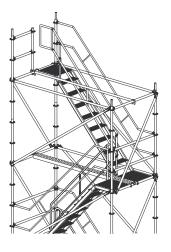
Different stair landing options depending on the top, for stair tower 3 \times 1.5 m



▲ Long stair landing to the side



△ Short stair landing to the side



▲ Stair landing to the front



▲ Access to formwork in silo construction



 Stair tower to access the formwork in the extension of the Jorge Chavez Airport, Lima, Peru

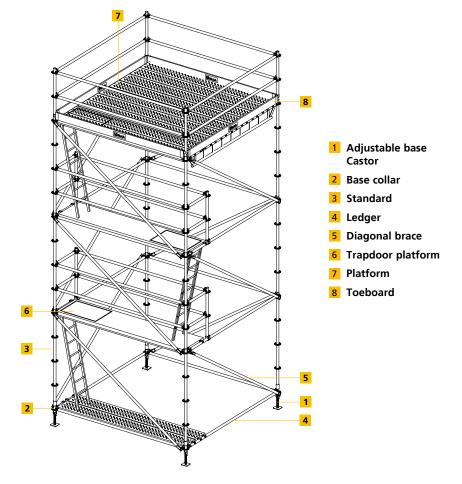
Scaffolding towers

Working platforms up to 12 m height are created without stabilisation.

The scaffolding towers can be static or mobile with the possibility to lift and move them with crane.



Erection of mobile scaffolding tower with safety guardrail posts.





Lifting and moving of towers



▲ Scaffolding towers for pouring of columns in the extension of the Jorge Chavez Airport, Lima, Peru



BRIO Shoring System

The BRIO Modular Scaffolding can be used as shoring system primarily in building construction to shore formwork consisting of main and secondary beams.

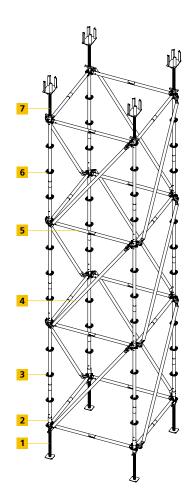
Features:

- **Wide range** of tower configurations: 0.35; 0.7; 1.02; 1.5; 2; 2.5 and 3 m.
- Load-bearing capacity optimised for building construction.

System advantages:

- Quick and easy assembly.
- Great **flexibility** to adapt to different geometries and configurations.
- Safe assembly of the shoring with assembly platforms and other safety items of the scaffolding.
- **Safe use** of the shoring by installing safe accesses, and with the possibility to create working areas and to install guardrails at the top level for the positioning of the formwork.
- Very reduced number of components.

- Possibility to lift and move the shoring once the vertical components are fixed.
- Assembly of individual shoring towers or full shoring possible.
- Excellent height adjustment.



- 1 Adjustable base
- 2 Base collar
- 3 Standard
- 4 Diagonal brace
- 5 Ledger
- 6 Standard without spigot
- 7 Head



▲ Creation of safe working spaces for formwork erection and at the perimeter ▲



▲ BRIO Shoring System supporting the roof of the Church of the Holy Family in Alzira, Valencia, Spain



Wastewater tank, Lima, Peru



▲ Slab construction at great height



▲ Tank shoring at 24 m height



Circular solutions

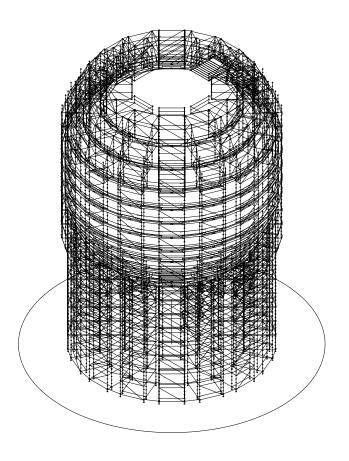
BRIO Circular Scaffolding offers solutions for curved geometries while meeting high safety standards in any type of work such as for example industrial maintenance.



▲ BRIO Scaffolding in industrial maintenance works



Maintenance of circular tank



Temporary roofs

Provide a comfortable and protected space with wide spans for restoration works, pavillions, etc.

Pre-assembly takes place on the ground for subsequent lifting by crane. Temporary roof solutions consist of beams and supports, sheets and standard items of the BRIO Scaffolding system.



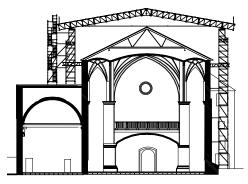
A Roofing and side covering of Chantilly Castle, Paris, France



A Roofing of San Telmo Convent, San Sebastian, Spain



A Roofing at great height without possibility to tie the top level, Selles-sur-Cher Castle, France





Roofing of Villagonzalo Palace, Madrid, Spain



Footbridges / Public staircases

Footbridges and public staircases are temporary structures that, with appropriate widths suiting any requirements, provide safe spaces for pedestrian traffic.



Scaffolding staircase for access to flats



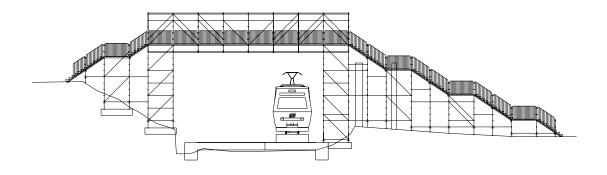
Pedestrian ramp



Metal steps and anti-slip wooden stair landing



Footbridge to cross over railway line



Roof edge protection

This system provides edge protection for roofs with nets or with metal perimeter protection.

The edge protection is verified according to the NF regulations based on the standard EN 13374:2004, class C.





Protection net reinforced at the perimeter

A Roof edge protection in new building construction

Support of façades

The BRIO scaffolding can also be used for the support of façades by combining simplicity and safety.

This application is aimed at the market of restoration and maintenance of façades.



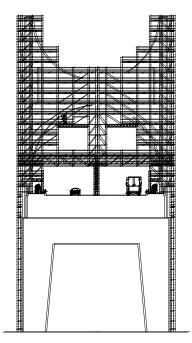




Special solutions

Maintenance of transport infrastructure

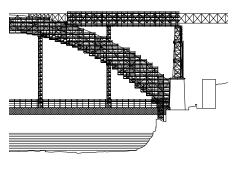




Restoration of the La Salve Bridge, Bilbao, Spain



▼ Restoration of the Ponte D. Luis I, Oporto, Portugal ▲





Hanging scaffolding for maintenance works at a viaduct



Restoration of the Ponte Figueira Da Foz, Portugal

Construction of large structures



▲ Control tower at the Barcelona Airport, Spain



▲ Water tank in Chimbote, Peru

Creation of working platforms



▲ Erection of scaffolding over cliff



Working platforms under roofing



Mobile working platform



Diverse structures



Temporary roof with a span of 22 m erected with standard items of the BRIO Scaffolding system.



▲ Structure for the simulation of a building

Leisure and entertainment





▲ Stages and screens for shows ▲



Snowboard ramp

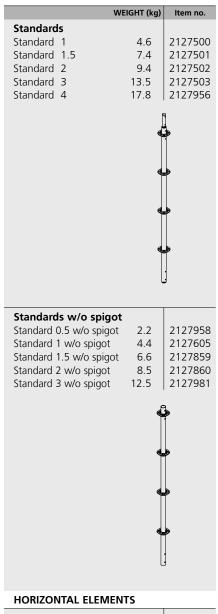


Staircase in the Beaujoire Stadium, Nantes, France

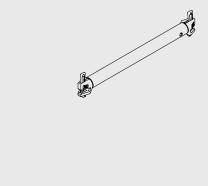
System components and accessories





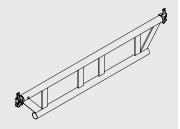


Ledgers		
Ledger 0.5	2.2	2127985
Ledger 0.7	3.2	2127522
Ledger 1.02	4.4	2127523
Ledger 1.5	6	2127524
Ledger 2	7.6	2127525
Ledger 2.5	9.4	2127526
Ledger 3	11.7	2127527

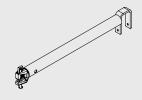




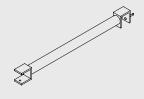
	w	EIGHT (kg)	Item no.
Platform suppor	rts		
Platform support	1.5	12.2	2127733
Platform support	2	17	2127728
Platform support	2.5	20.1	2127724
Platform support	3	23.9	2127719



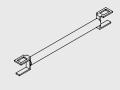
Head-hook ledger		
Head-hook ledger 0.7	3	2128639
Head-hook ledger 1.02	4.4	2128642
Head-hook ledger 1.5	6.2	2128645
Head-hook ledger 2	8.3	2128648
Head-hook ledger 2.5	10.2	2128651
Head-hook ledger 3	12.1	2128654



Intermediate transoms	
Intermediate transom 0.7 3.5	2127861
Intermediate transom 1.02 4.7	2127862
Intermediate transom 1.5 6.4	2127863
Intermediate transom 2 8.2	2127864
Intermediate transom 2.5 10.1	2127865
Intermediate transom 3 11.8	2127866



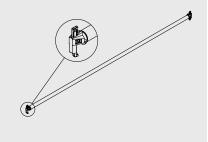
Ledgers BP		
Ledgers BP 1	2.6	2128631
Ledgers BP 2	3.8	2128635
Ledgers BP 3	5.1	2128637



	WEIG	HT (kg)	Item no.
DIAGONAL BR	ACES		
Diagonal brace	es		
Diagonal brace	0,35 x 2	8.5	2129411
Diagonal brace	0,7 x 2	7.2	2127540
Diagonal brace	1,02 x 2	8.7	2127541
Diagonal brace	1,5 x 2	10.2	2127617
Diagonal brace	2 x 2	11.8	2127542
Diagonal brace	2,5 x 2	13	2127618
Diagonal brace	3 x 2	14.2	2127543
Diagonal brace	0,7 x 1	6.5	2127896
Diagonal brace		7.2	2127897
Diagonal brace	1,02 x 1	7	2127898
Diagonal brace	1,02 x 1,5	7.6	2127899
Diagonal brace	1,5 x 1	7.6	2127900
Diagonal brace	1,5 x 1,5	8.8	2127901
Diagonal brace	2 x 0,5	8.9	2128241
Diagonal brace	2 x 1	9.2	2127902
Diagonal brace	2x 1,5	10	2127903
Diagonal brace	2,5 x 1	10.9	2127904
Diagonal brace	2,5 x 1,5	12.2	2127905
Diagonal brace	3 x 1	12.9	2127906
Diagonal brace	3 x 1,5	13.7	2127907

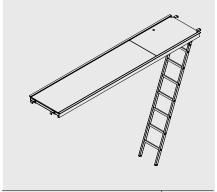


Horizontal diagonals		
Horizontal d. 2 x 2	6.6	2127920
Horizontal d. 2 x 3 Horizontal d. 2.5	5.4	2129541
x 2.5 Horizontal d. 2.5	5.4	2129539
x 3 Horizontal d. 3 x 3	5.8 6.2	2129542 2129540

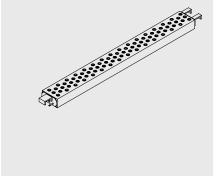


	WEIGHT (kg)	Item no.
WORKING PLATFOR	RMS	
Platforms		
Platform 0.7	6.6	2127718
Platform 1.02	9	2127717
Platform 1.5	12.4	2127716
Platform 2	17	2127715
Platform 2.5	20.2	2127714
Platform 3	22.2	2127713

Trapdoor platform		
Trapdoor platform1.02	7.9	2129617
Trapdoor platform 1.5	13.5	2128152
Trapdoor platform 2	18.6	2127868
Trapdoor platform 2.5	25.8	2127867
Trapdoor platform 3	31	2127712



Complementary platforms		
Complementary pl. 1.5	8	2127756
Complementary pl. 2	10.2	2127755
Complementary pl. 2.5	12.8	2127754
Complementary pl. 3	15	2127753





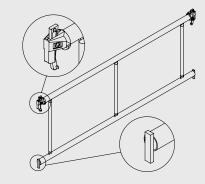


SAFETY GUARDRAIL

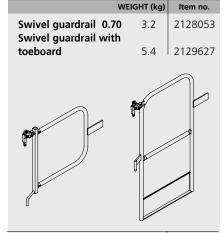
Corner guardrails BRIOCorner guardrail 0.7 BRIO3.62127572Corner guardrail 1.02 BRIO4.62127573



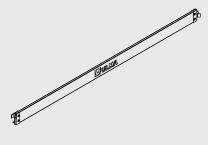
Guardrails BRIO		
Guardrail 1.5 BRIO	7.6	2127554
Guardrail 2 BRIO	9.2	2127555
Guardrail 2.5 BRIO	11.8	2127556
Guardrail 3 BRIO	12.8	2127557





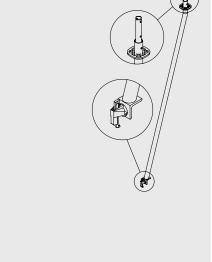


Toeboards		
Toeboard 0.7	2.6	2124998
Toeboard 1.2	3.2	2124999
Toeboard 1.5	4.2	2124994
Toeboard 2	5.2	2124995
Toeboard 2.5	6	2124996
Toeboard 3	6.8	2124997

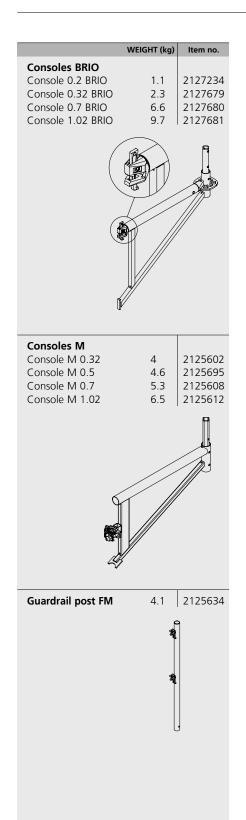


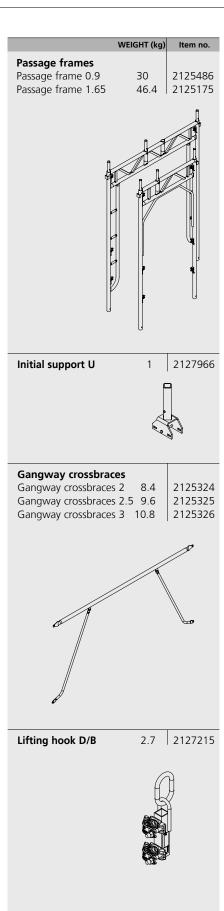
COMPONENTS AND ACCESSORIES

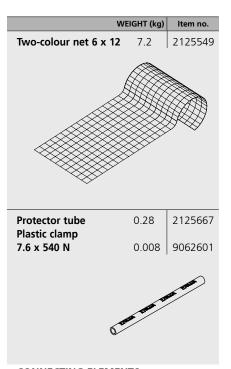
Cantilever BRIO
Cantilever 0.7 BRIO 9 2127739
Cantilever 1.02 BRIO 10 2127745

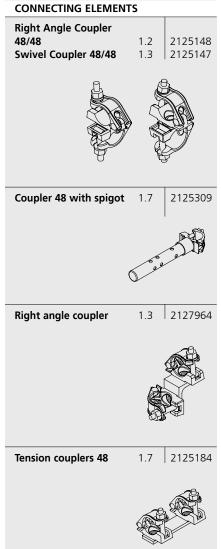


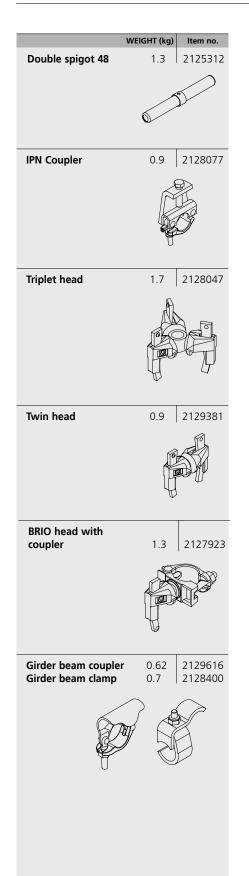




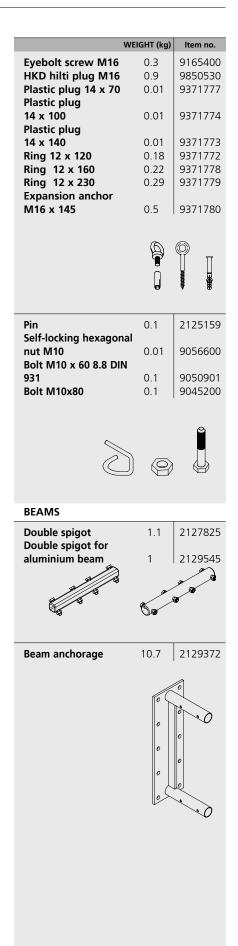






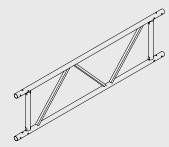


	WEIGHT (kg)	Item no.
Tubes		100 1101
Tube 48/0.5 Tube 48/1.1 Tube 48/1.6 Tube 48/2.1 Tube 48/3.1 Tube 48/4.1 Tube 48/5	1.8 3.7 5.5 7 11 15	2125288 2125289 2125290 2125291 2125249 2125250 2125251
Ties Tie 0.3 Tie 0.5 Tie 1 Tie1.5 Tie 2	1.6 2.2 4.2 5.8 7.6	2125503 2125137 2125138 2125139 2125140
6		
Ties Tie 48/3,5 Tie 48/5	13.3 18.7	2125513 2125515
Window ties Window tie 0.8-1.2 Window tie 1.2-2	6.1 7.7	2125107 2125108
	/	

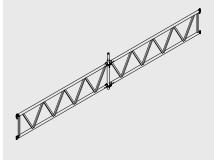




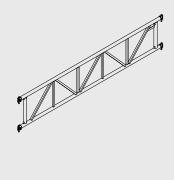
	WEIGHT (kg)	Item no.
Beams		
Beam 500 2	18.8	2128095
Beam 500 2.5	23	2128098
Beam 500 3	27.1	2128100
Beam 500 4	35.4	2128104
Beam 500 6	52	2128106
Beam alu 2	9	2128108
Beam alu 2.5	11.5	2128112
Beam alu 3	14	2128114
Beam alu 4	18	2128118
Beam alu 6	26	2128120

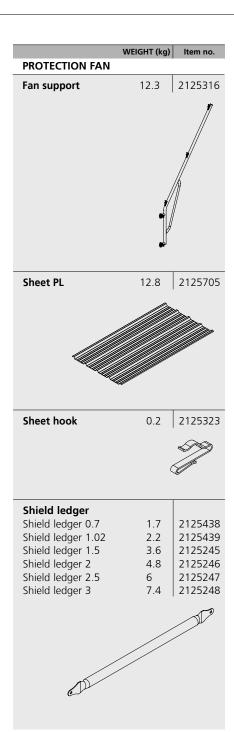


Bridging beam BRIO		
Bridging beam 4 BRIO	44	2127706
Bridging beam 5 BRIO	56	2127702
Bridging beam 6 BRIO	68	2127693



Passage beams			
Passage beam 1.0	02	12.6	2128052
Passage beam 1.	5	16.3	2128081
Passage beam 2		23.4	2128082
Passage beam 2.	.5	30	2128083
Passage beam 3		35	2128084

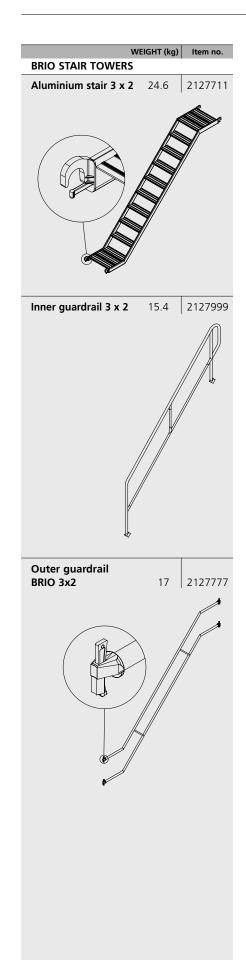


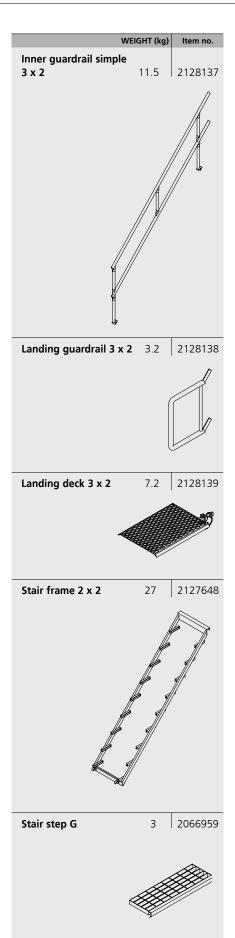


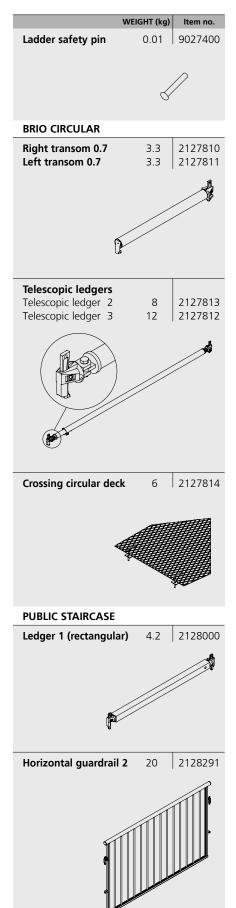
TEMPORARY	ROOFS	5	
Roof support Roof support Roof support	0.7	16.1 20	2129558 2129225
	e		

Ridge	7.5	1500236
Ridge sheet	9.4	2125678
<		
Tie rods Tie rod 15/1 Tie rod 15/1.5 Tie rod 15/2 Tie rod 15/2.5 Tie rod 15/3 Tie rod 15/3.5 Tie rod 15/4 Tie rod 15/4.5 Tie rod 15/5.5 Tie rod 15/6	1.7 2.2 3.3 3.6 4.3 5 5.8 6.5 7.2 7.9 8.6	0230100 0230150 0230200 0230250 02303300 0230350 0230400 0230450 0230550 0230500
Hexagonal nut 15 Hexagonal nut 15/100x30 Spring washer B18	0.22 0.3 0.1	7238001 7238003 9371767
Covering roof tie rod	4.4	1500405

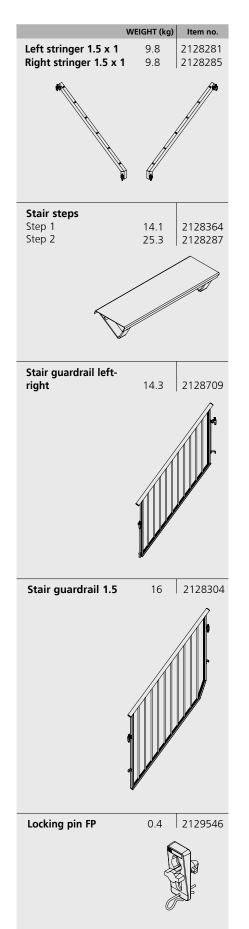


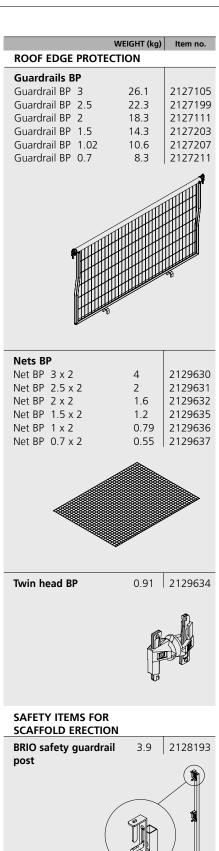


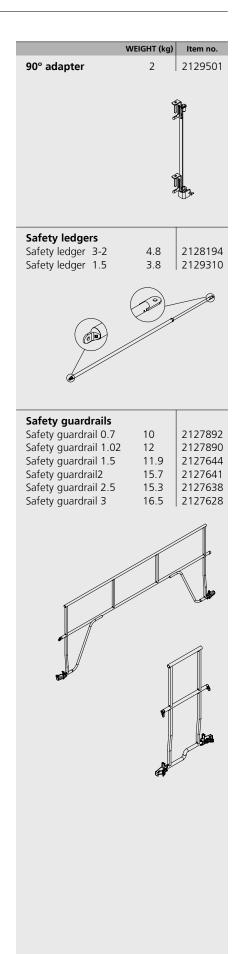


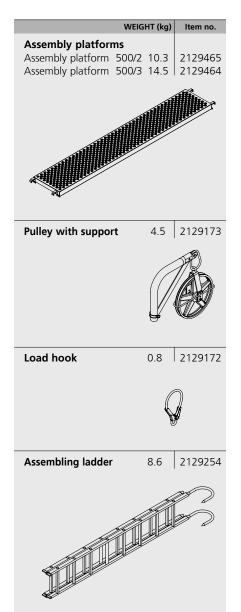


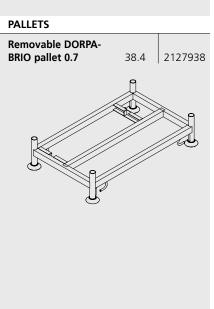


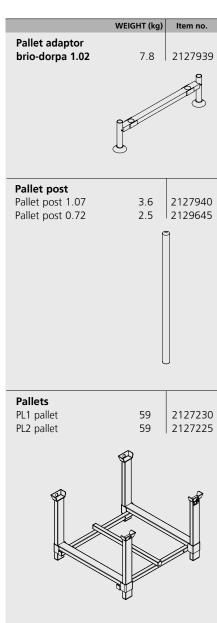




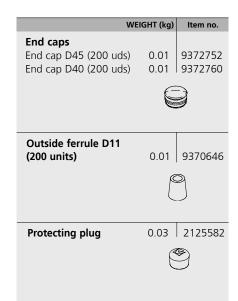














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