ULMA

SAFETY BOOK


ULMA

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Only safe work can be speedy work. And the speedier the work, the greater its productivity and quality.

Every individual has the right to work in safe, healthy and comfortable conditions. It has been proven that better working conditions increase productivity and quality indexes.

Continuous and sustainable improvement in working conditions positively impacts the results of on-site work. Working in a safe environment is part of taking care of health, as well as contributing to the satisfaction and involvement of individuals in the performance of their work. As a consequence, there is a visible increase in productivity and hence in competitiveness.

Safety and health at work are also an essential part of social welfare. We also consider that the most important part of a project is the people working on it, in reason of their effort, knowledge, resourcefulness and commitment. For this reason, it is vital for the work environment to be safe and pleasant, thus stimulating individuals to do their very best.

At ULMA, we set goals that go beyond compliance with legal obligations, since it is our duty to promote new construction methods that **improve both the working conditions and the productivity of our customers.**

At ULMA, a project begins with the knowledge of our customers' needs and ends when the works have been fully completed. Throughout this whole process, we remain close to our customers in the management and resolving of their needs in a flexible manner, with safety being a top priority in the three stages that we distinguish in our relationship with our customers: ***Solutions design; Materials supply; and Assembly, use and dismantling.***

Therefore, ULMA will care for your safety from the designing of solutions to the dismantling of all products.

1 SOLUTIONS DESIGN

Iñaki Irizar
Technical Director

Once the collaboration agreement has been reached, we analyse each project in depth, working hand in hand with the customer, to assess each and every detail of the works. From this point onwards, **we begin to select the most suitable products and services, with safety central to our focus.** Thus through close dialogue with our customers we set the foundations to guarantee the success of the project.

2 MATERIALS SUPPLY

Iker Mendiluze
Director of Operations

The delivery of materials in compliance with the schedule agreed with the customer is essential for the success of the project. Furthermore, by delivering some of our preassembled and correctly mounted on pallets, we favour increased safety in on-site assembly. For this, we offer a wide range of components such as lifting hooks, pallets or wire crates that comply with all the requirements set by our customers.

3 ASSEMBLY, USE AND DISMANTLING

Tiago Martins
Site Supervisor

We work side-by-side with the customer at the work site. We believe that this is the best way to ensure that our products are assembled and dismantled in accordance with safety standards. For this, we inform and train our customers, advising them on anything that they require. Furthermore, working closely with our customers ensures that our products and solutions evolve, improving in cost-efficiency and safety.

Rather than just products, we offer solutions and services.

1 SOLUTIONS DESIGN

- **We constantly keep doing research** on new materials, we use **state-of-the-art tools** and we provide continuous training for our **engineering team.**
- **We apply manufacturing processes and technologies** in line with maximum quality standards.
- **Our products and processes are certified and type-approved** by independent accredited bodies.
- **We conduct studies to obtain the ideal combination of products** to optimise safety, results and cost-efficiency.
- We have state-of-the-art tools and **simulation techniques for products in real-life work site situations.**
- All of ULMA's products are backed by calculations **that guarantee their load-bearing capacity and stability, in accordance with their nature and features.**

2 MATERIALS SUPPLY

- All materials are delivered **correctly mounted on pallets** in order to facilitate the movement of materials on site.
- We offer a preassembly service for complex formwork units and for cases where there is reduced on-site space.
- **We provide load-bearing items** (lifting hooks, etc.).
- Together with the customer, we analyse and design the ideal schedule for delivery of materials and assistance for an **optimal execution of the project in all its stages.**
- We provide information about **appropriate stacking and product heights.**

3 ASSEMBLY, USE AND DISMANTLING

- We provide information on **the way to work with our products,** and on how to **provide the necessary training** for the handling of said products.
- We assign the assembly, dismantling and modification of scaffolding and formwork **to people specifically trained for these tasks.**
- We provide updated documentation that helps carry out adequate **occupational risk prevention.** (This includes user guides, technical assembly instructions, etc.).
- **We design products with tying points** for the use of safety harnesses, footbridges, platforms, lifelines
- **Our site supervisors are present at the work site.** This facilitates that our products are assembled, used and dismantled in accordance with safety standards, **offering advice on anything that the customer requires.**

MANAGEMENT CERTIFICATIONS

PRODUCT CERTIFICATIONS


You can find more information about
our commitment to safety at:
www.ulmaconstruction.com

SBU WALL PLATFORM
Safety in work at height

SBU is a metal galvanised platform with accesses, designed for carrying out work at height on wall formwork (tying, concrete pouring, etc.) in total safety. It is suitable for different formwork heights and adapts to different geometries.

SOLUTIONS DESIGN

- It is made up of items from the BRIO multidirectional scaffolding, certified as per **European standards EN 12810-1/2 and EN 12811-1/2/3.**
- **Load-bearing capacity** of the bracket: **1.5 kN/m²** on the platforms.
- Compatible with the whole range of ORMA panels.
- This product can be adapted to different heights between platforms.

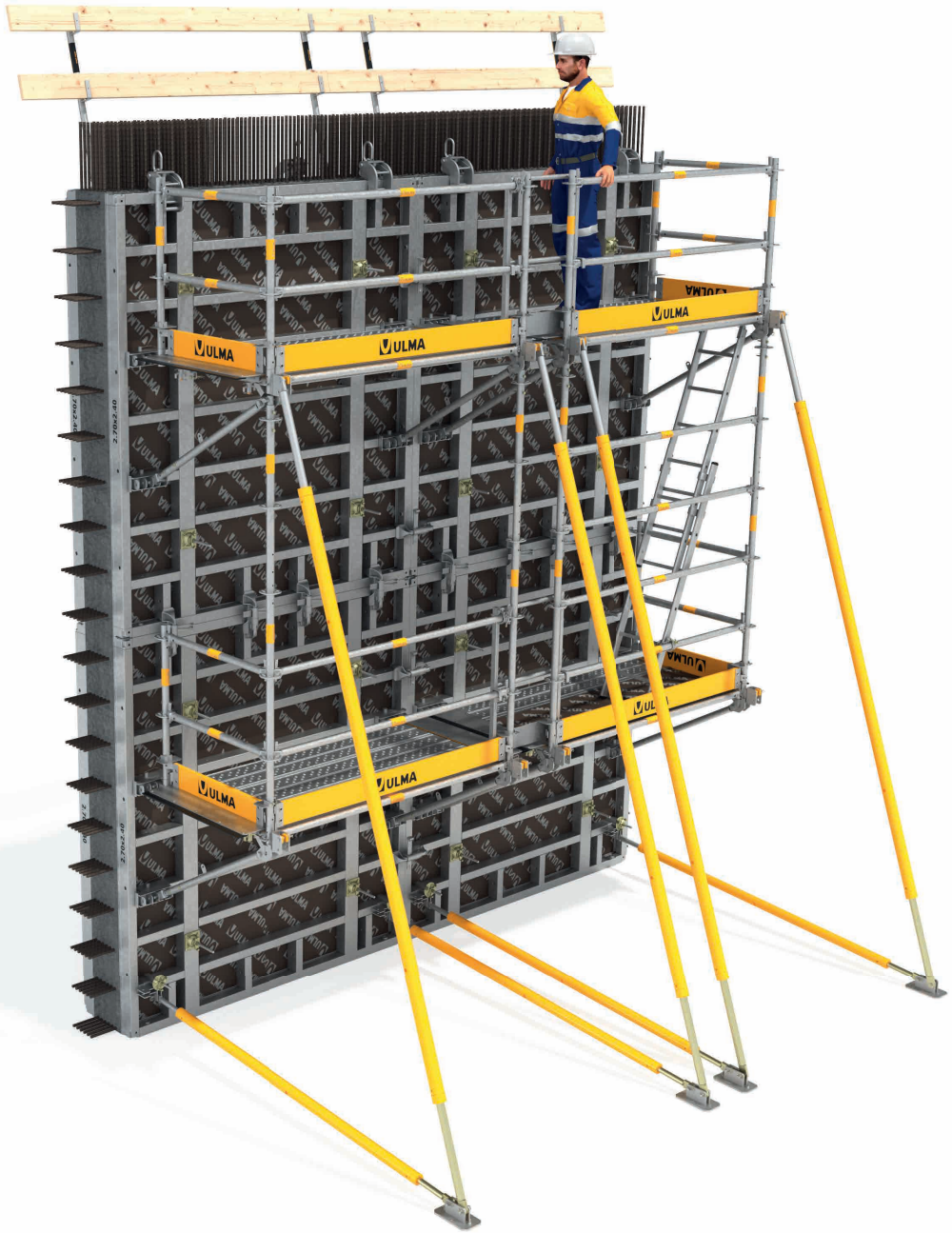
MATERIALS SUPPLY

- **This product can be folded and stacked** for transporting and storing.
- The platforms **may be preassembled at the warehouse.**

ASSEMBLY, USE AND DISMANTLING

- Access between brackets is via the **ladders and ladder hatches** incorporated into the system.
- **Assembly of the panels**, platforms and push-pull props **on the ground**, in order to subsequently lift the assembly to the vertical position.
- **Handrails and toeboards** (15 cm) incorporated into the system.

COMPATIBLE WITH: *ORMA modular formwork.*

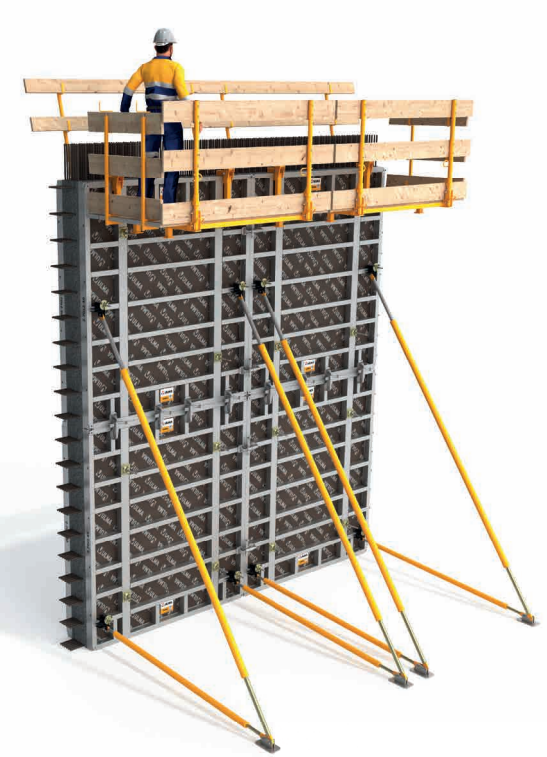


1 Joint between panels and SBU platform using heads (pictured) or walers.

2 Platforms made of non-slip perforated sheet.

ORMA PLATFORM 2.4 x 1.2
Easy and safe concrete pouring

Working platform with all components incorporated for placement at the top of the ORMA panels. System optimised to offer safety and reduce wall casting time.



MATERIALS SUPPLY

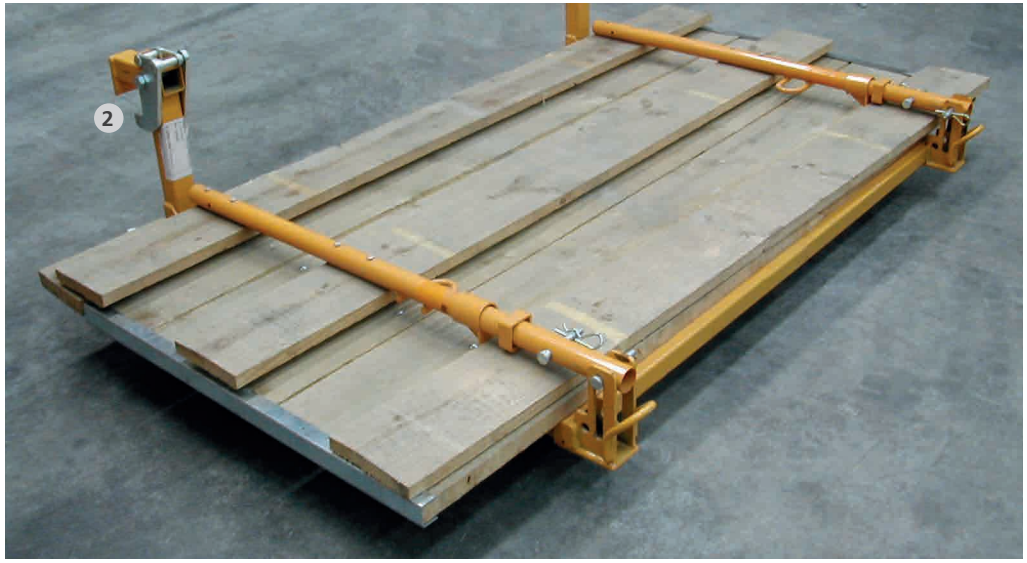
- **Foldable handrail and stackable platform** for transporting and storing.

ASSEMBLY, USE AND DISMANTLING

- **Easy assembly** after unfolding the platform, and lifting with crane.
- For face-to-face formwork, protection must be complemented using the ORMA post bracket and the closer.

COMPATIBLE WITH: *ORMA modular formwork.*

1. Working platform with wooden planks measuring 20 x 4 cm.
2. Tying system on the panel profile. This consists of a hook. When it is pulled, the end plates open; and when it is released, they close upon the ORMA panel profile.



UNIVERSAL COLUMN PLATFORM

Guaranteed safety in column casting

Safety item for column casting tasks that can adapt to any column cross-section dimensions. All safety and lifting items are incorporated onto the platform.

SOLUTIONS DESIGN

- **Maximum load: 1.5 kN/m²**, class 2 as per Standard EN-12811.

MATERIALS SUPPLY

- **Foldable outer handrails** to ensure compact transportation of the platform.
- **Stackable platform** up to a maximum of 5 units.

ASSEMBLY, USE AND DISMANTLING

- **Easy to assemble and dismantle on the ground** on formwork panels.
- **Protected platform perimeter and ladders with cage** for protection from the risk of falling.
- Structure consisting of steel tubes covered with **chequered plate to prevent slipping.**

COMPATIBLE WITH: *ORMA, LGW, NEVI, MEGAFORM and MEGALITE vertical modular formwork; F-4 MAX articulated formwork for columns; and LGR, LGC, CLR (circular) and TUBUS (circular) column formwork.*

1 Direct fixing to formwork panels.

2 Supports for fixing the different access ladders.

VR TABLE FORMWORK
Safety and speediness in large slabs

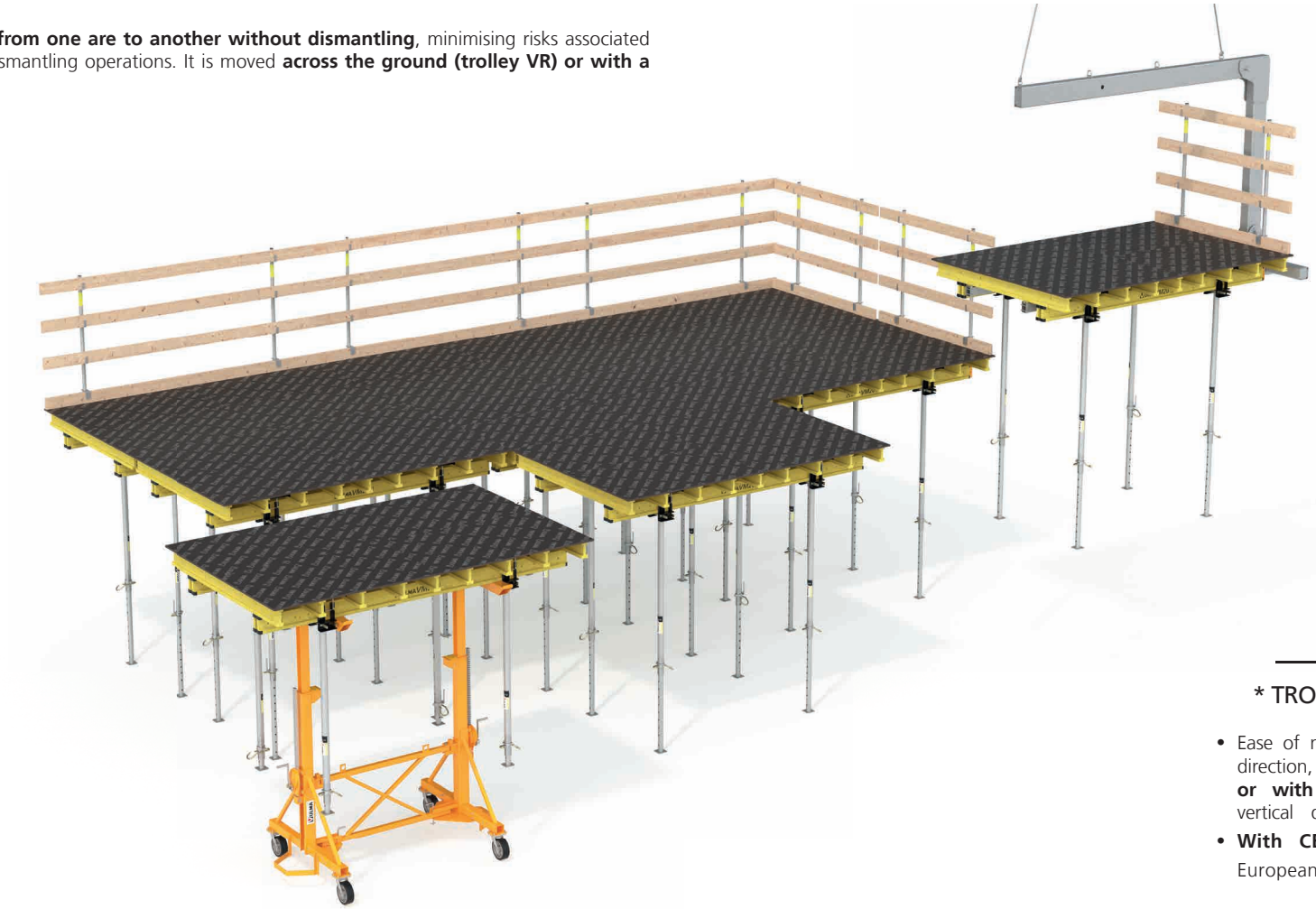
Formwork designed for highly demanding work in terms of safety and finishes, adaptable to any type of slab (lightened or solid). It is remarkable for being a system that does not require the intervention of many workers and offers the possibility of constructing drop beams, column heads and other geometries on slabs.

MATERIALS SUPPLY

- **It can be moved from one are to another without dismantling**, minimising risks associated to assembly and dismantling operations. It is moved **across the ground (trolley VR) or with a crane (hook VR).***

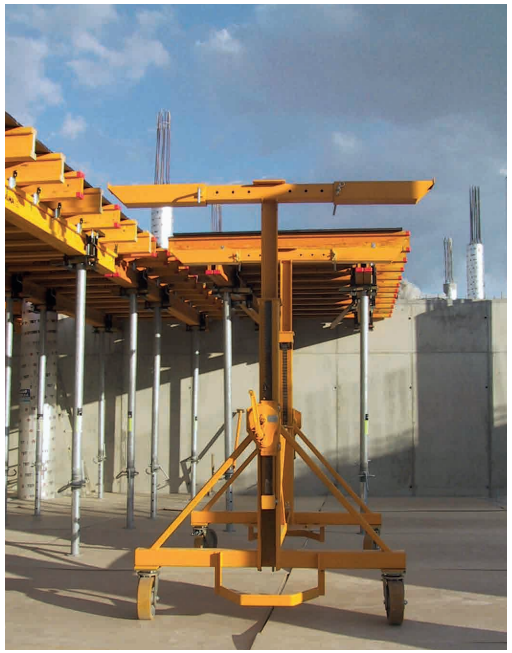
ASSEMBLY, USE AND DISMANTLING

- **Assembly of the formwork with board and handrails at ground level**, except for infilling works at height.
- **Incorporated handrails** on perimeter tables for the entire process to prevent operator falls.
- Metal main beam with prop locking and folding system possible.
- Easy and safe cantilever solution, thanks to the projection provided by the position of props.



* TROLLEY VR / HOOK VR

- Ease of movement both in the horizontal direction, **with the motorised carriage or with the trolley VR**, and in the vertical direction **with the hook VR.**
- **With CE marking.** It complies with European Directive 98/37/EC on machinery.



1 Incorporated handrails on perimeter tables for the entire process.

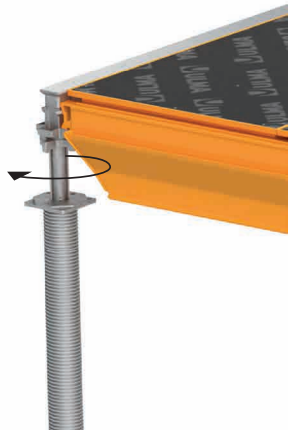
2 Swivel head for folding the props and thus easily going around obstacles or parapets when moving the tables.

CC-4 SLAB FORMWORK
Safe working from the ground

Recoverable formwork for solid or lightened slabs that guarantees excellent finishes. Also, its aluminium structure and the drophead allow fast and safe assembly and stripping.

MATERIALS SUPPLY

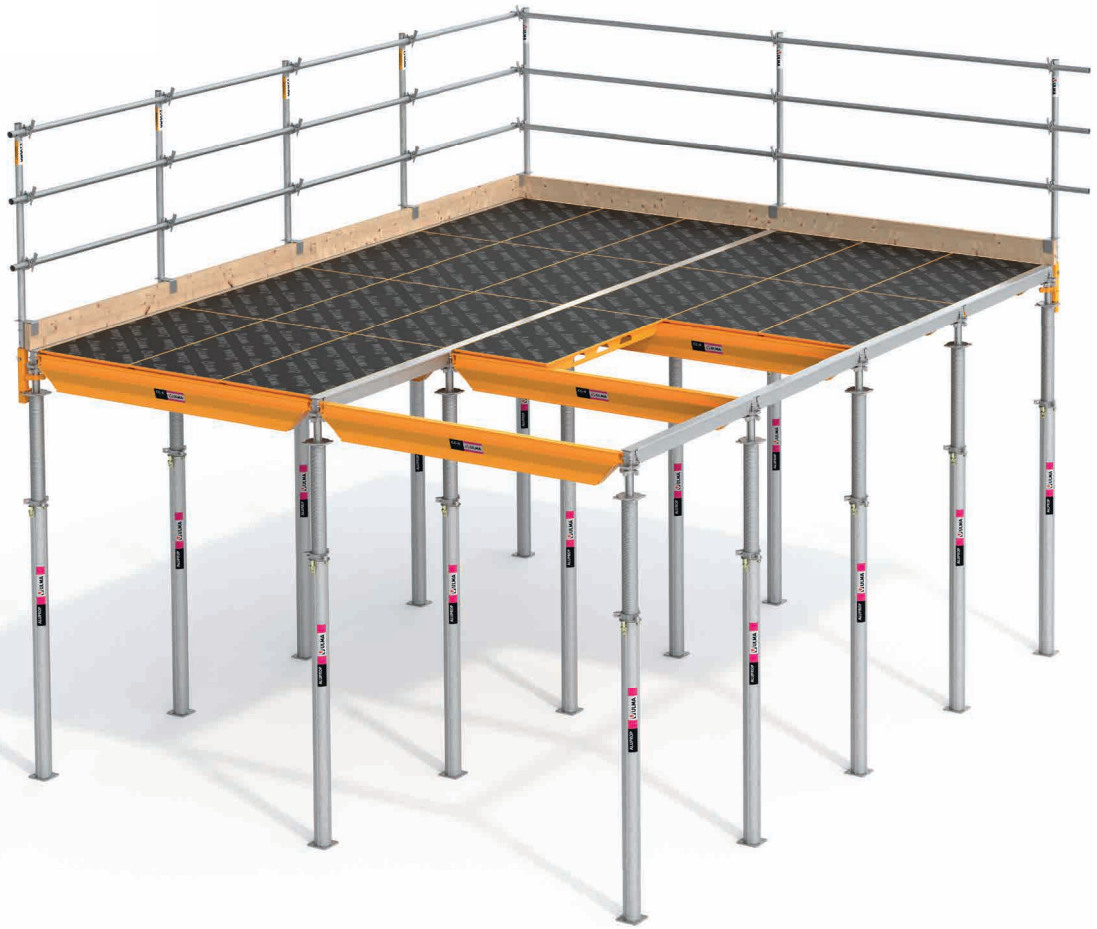
- Pallets for transporting beams and panels, both for their delivery and for their movement at the work site.



The drophead (15 cm descent) allows **stripping and recovering the material without it falling**, providing more protection for the operator.

ASSEMBLY, USE AND DISMANTLING

- It allows prior assembly of the grid and subsequent platform laying (panels or board).
- **Fully safe assembly of the panels from underneath.** Several grids are completed from a single position, by sliding over the panels.
- **Stripping and recovery of the material without it falling to the ground.**



1 Efficient performance in terms of assembly due to the system's lightness. 2 Stripping with the drophead.

NETS UNDER FORMWORK

Collective protection for the construction of slabs

Collective protection systems designed for breaking the fall of individuals to a different level during assembly of the formwork or construction of slabs. It is fitted with a perimeter rope that is joined to the slab formwork via anchorages and load-bearing components.

COMPATIBLE WITH: *CC-4 aluminium modular slab formwork, RAPID recoverable slab formwork and RECUB recoverable formwork for reticular slabs.*

1. The distance from the net to the top part of the formwork must not exceed 80 cm in height.
2. It is recommended that you do not leave props without anchors.

SOLUTIONS DESIGN

- This is a reusable safety net (System B).
- **Tested in accordance with Spanish standard UNE 81652:2013..**
- Manufactured with a square mesh. **Maximum mesh size: 100 mm; minimum breaking energy: 2.3 kJ**.

ASSEMBLY, USE AND DISMANTLING

- **Easy, fast and safe installation from the ground.**
- They allow **full and safe worker mobility above the protected area.**
- They cover different formwork grid widths.

SHORING ASSEMBLY PLATFORMS
Safe shoring system assembly

The shoring assembly platforms are the platforms where modules, protective handrails and protected accesses between them are received. This enables the assembly of new modules safely.

COMPATIBLE WITH SHORING SYSTEMS: *T-500, T-60, MK, ALUPROP and BRIO.*

MATERIALS SUPPLY

- They allow **assembly on the ground above the shoring, and subsequent lifting to their final position.**
- Possibility of assembling **individual, linked or reinforced towers.**

ASSEMBLY, USE AND DISMANTLING

- The assembly platforms and access ladders facilitates the safety of operators.

BRIO SAFETY POSTS AND LEDGERS
Safe assembly and dismantling of scaffolding

Auxiliary collective protection items used during assembly and dismantling to create the safety handrail of the level above the scaffolder. Thus when the scaffolder goes up to said level, they have a provisional safety handrail.

COMPATIBLE WITH: *BRIO multidirectional scaffolding.*

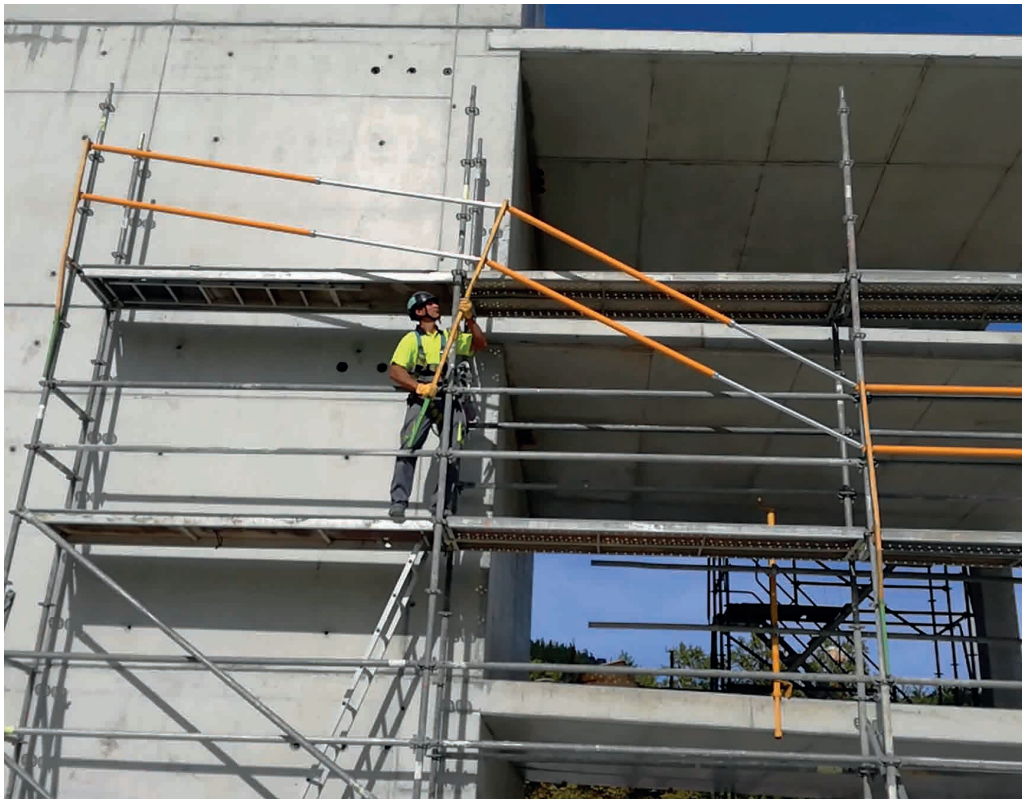
1. Telescopic ledgers.
2. Provisional handrail for assembly and dismantling.

SOLUTIONS DESIGN

- **Safety post tested in accordance with standard EN 795** (personal fall protection equipment – anchor devices).

ASSEMBLY, USE AND DISMANTLING

- **Assembly from the level below.**
- **Fall protection.**



BRIO PERMANENT HANDRAIL
BRIO scaffolding edge protection

The BRIO permanent handrails are used for the protection of the scaffolder during the assembly and dismantling stages, protecting the level above from the level below, and they remain as permanent protection handrails.

SOLUTIONS DESIGN

- **Handrail with the French NF quality certificate** awarded by the C.S.T.B. and AFNOR, certifying its quality and safety in accordance with French and European legislation.

ASSEMBLY, USE AND DISMANTLING

- Since this is a permanent assembly handrail, **it protects operators during the assembly, use and dismantling stages.**

COMPATIBLE WITH: *BRIO multidirectional scaffolding.*

1 Handrails as final permanent protection.

BRIO/MK WORKING PLATFORMS

Versatile platforms with a high load-bearing capacity

Platforms designed combining ULMA's two most versatile products: the BRIO scaffolding and the walers MK. This combination allows for multiple platform configurations with standard items, and also a high load-bearing capacity.

SOLUTIONS DESIGN

- Platforms designed with BRIO scaffolding items. This allows creating **multiple configurations in accordance with needs.**
- **They can be combined with the MK system to support higher loads.**

ASSEMBLY, USE AND DISMANTLING

- **Possibility of preassembly on the ground and lifting with a crane.**

1 Roll-back carriage MK as a working platform.

2 BRIO scaffolding assembled on MK structure.

BRIO PROTECTION ROOFING
Safe work areas

They ensure that there is an open, clear, comfortable and protected space in renovation and construction works. They are erected to prevent operator falls and to protect pedestrians or transit underneath a work site from falling objects.

1 Generation of work spaces for renovation.

2 Compatibility with other ULMA products (H-33).

SOLUTIONS DESIGN

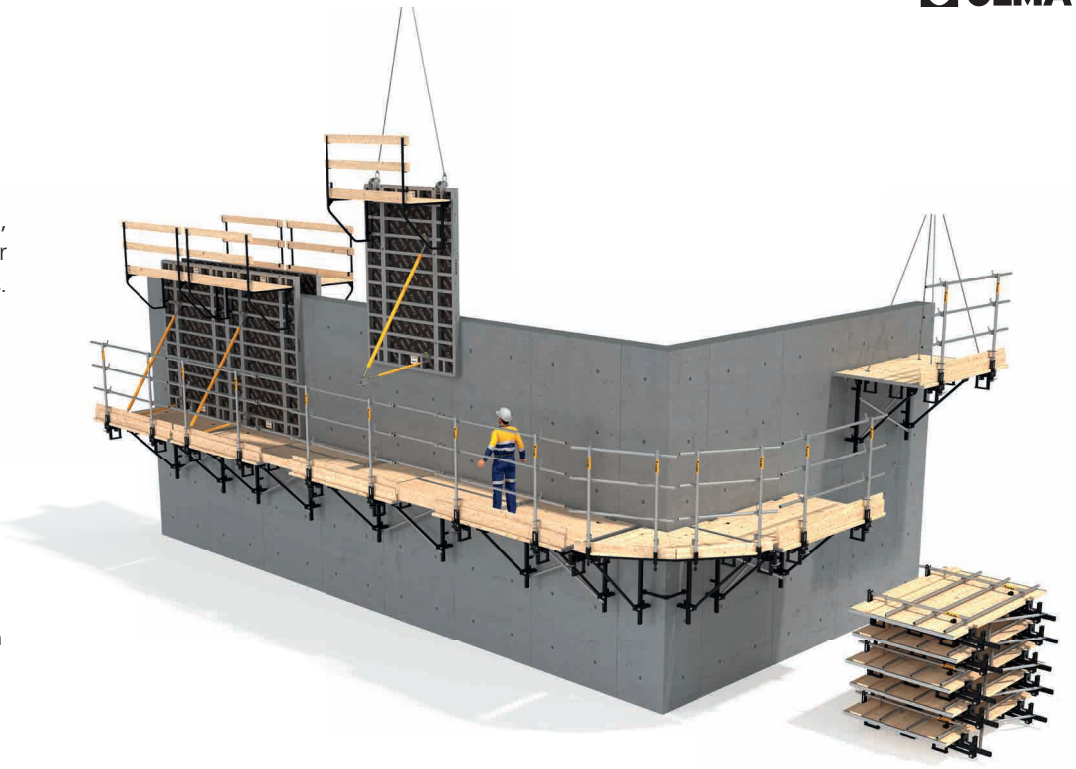
- Certified product
- Based on the BRIO scaffolding, **it allows creating multiple configurations in accordance with needs.**
- It can be combined with the MK system **to support higher loads.**

ASSEMBLY, USE AND DISMANTLING

- **Preassembly on the ground and lifting with a crane.**
- **Covering of the roofing with different materials** such as resistant canvasses or sheets.

PERIMETER PLATFORM BF-170
Guaranteed safety in work at height

Perimeter working platforms with a width of 170 cm. They are located on the perimeter of the building, and they are moved from one floor to another as the building grows in height. They serve as support for the formwork and for carrying out subsequent work such as enclosure or repairs on the constructed walls.



SOLUTIONS DESIGN

- **Load-bearing capacity, class 5 (4.5 kN/m^2) as per standard EN-12811.**

MATERIALS SUPPLY

- Reduced assembly times, since **it is delivered fully preassembled and folded to the work site.**

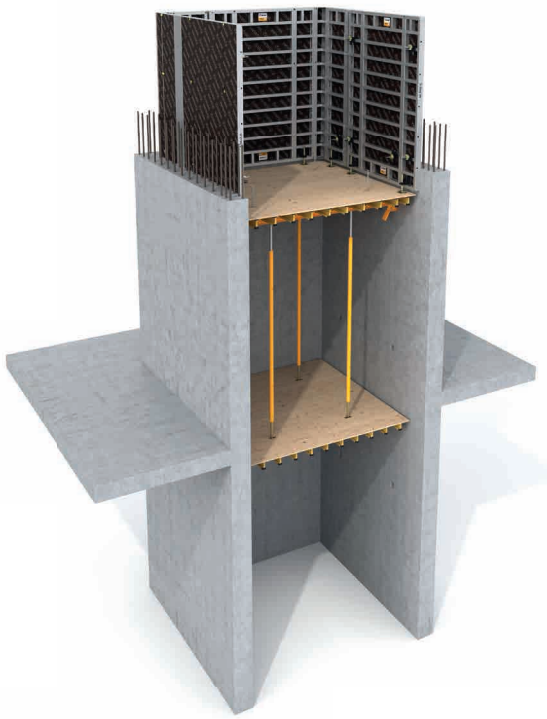
ASSEMBLY, USE AND DISMANTLING

- **Solutions for corners up to 90º, to bridge window openings and gaps between slabs** and with compensations for **covering potential openings between the platforms.**

1. Specific platforms for corners at 90º.
2. Basic component measuring 3 m in length and 1.70 m in width.

KSP SHAFT PLATFORM
Safe formwork support in shafts

Platform for lift shafts, stairwells, hollow piers and other types of cavities. It supports the formwork and also serves as a working platform to work on the formwork during stripping tasks, plumbing tasks, etc.



SOLUTIONS DESIGN

- **Certified product designed by the German SIGMA KARLSRUHE Institute.**

ASSEMBLY, USE AND DISMANTLING

- **With perimeter protection (toeboards and handrails)** in case there is a risk of fall from any of the platform edges.
- **Movement of the platform by means of a crane, with the operators outside the cavities.**
- It spans any distance to be covered with fully standard and modular materials, mainly wooden beams and walers.

1 Formwork supported by KSP platform.

2 Depending on the type of anchoring on the wall, there are two solutions: Gravity pawl bracket with abutment and folding bracket with adjustable bracket.

RKS RAIL CLIMBING SYSTEM
Safe and efficient climbing

Rail climbing system consisting of a bracket that supports the slab and different platforms that allow carrying out the different tasks required at the different stages of the work.

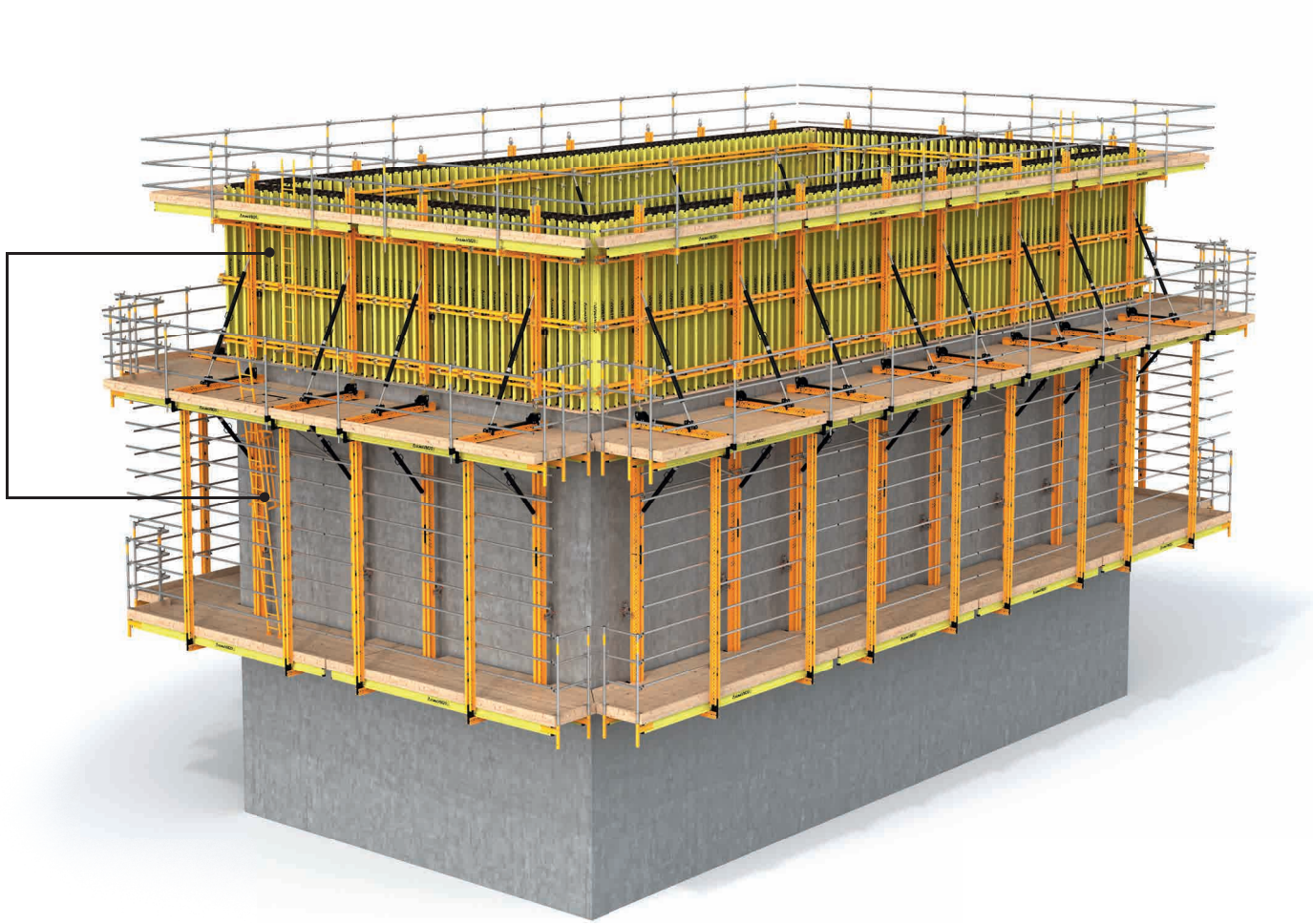
MATERIALS SUPPLY

- **Possibility of preassembly at the warehouse.**

ASSEMBLY, USE AND DISMANTLING

- Safe climbing at any height; **process guided at the wall during lifting.**
- **Assembly lifting manoeuvre by means of a hydraulic system, with the option of lifting with a crane.**
- **Safe lifting in adverse weather conditions**. It allows climbing without separating the structure from the wall.
- **Broad and safe platforms, configurable in accordance with requirements.**
- Versatile and adaptable (based on the MK system).

Accesses by means of ladders between the different platforms that make up the RKS rail climbing system.



1 A single lower platform for anchor recovery tasks.

2 Lifting capacity of the hydraulic cylinder: 50 kN.

ATR SELF-CLIMBING SYSTEM

Safe, automatic and reliable self-climbing formwork

Formwork support structure for construction of walls and other vertical structures without a crane. The climbing is carried out by means of the successive elevation of the mast and of the bracket-formwork assembly on the wall.

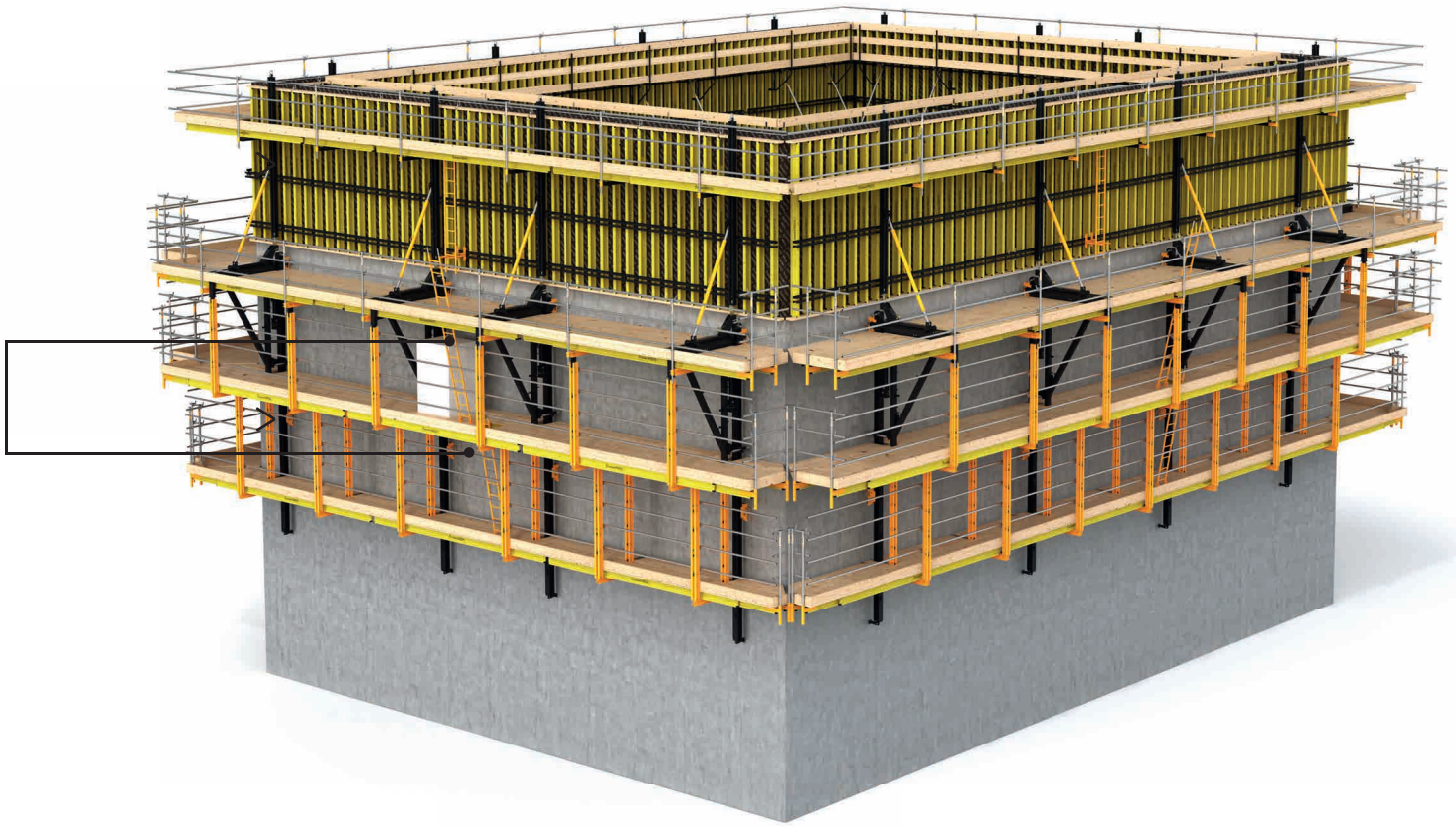
MATERIALS SUPPLY

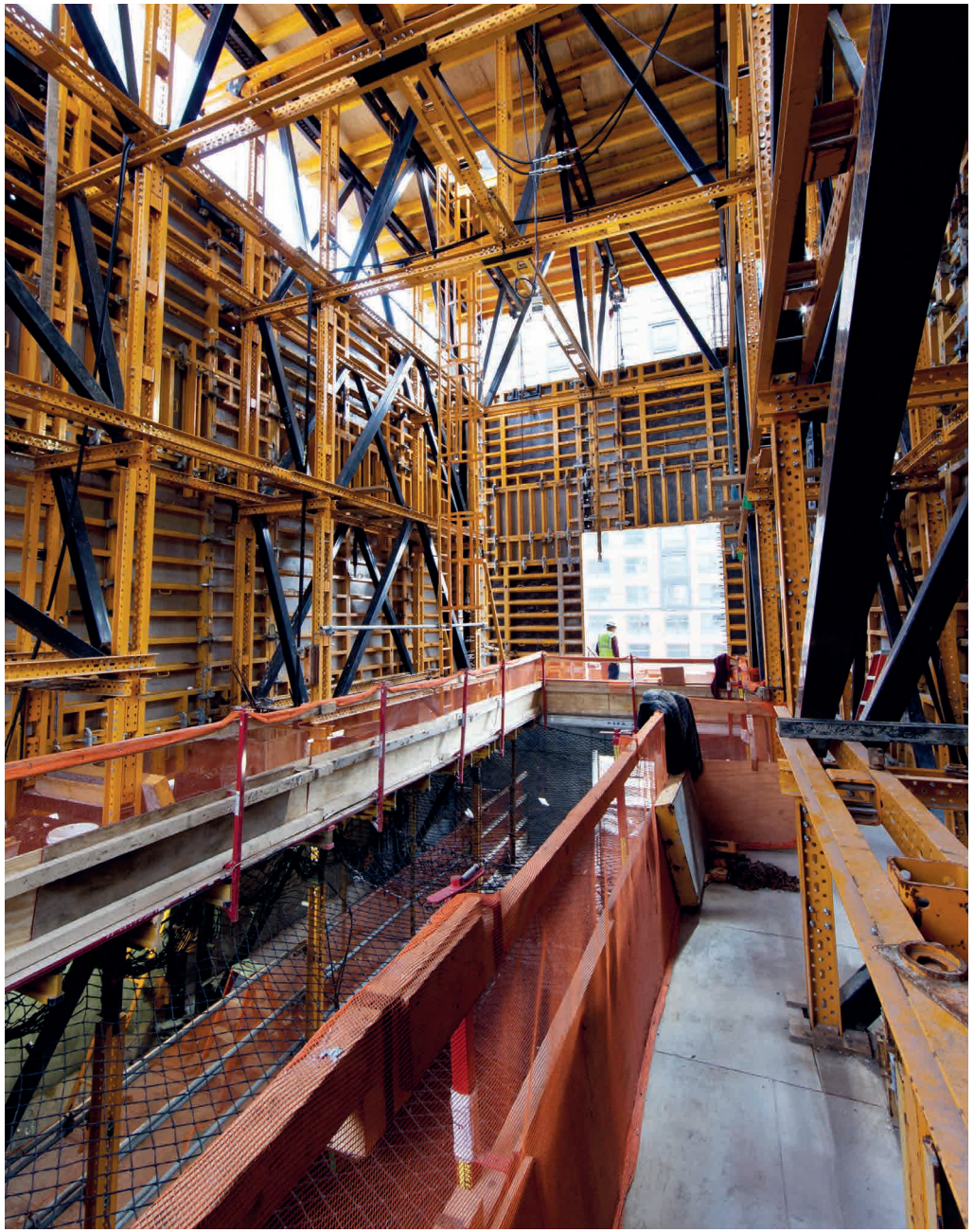
- **Possibility of preassembly at the warehouse.**

ASSEMBLY, USE AND DISMANTLING

- **Autonomy with regard to the crane.** It allows the simultaneous lifting of the formwork, working platforms and concrete placing boom.
- **Broad and protected working platforms.**
- **Operative even under adverse weather conditions.**
- **Safety in lifting and handling at tall heights.**
- Versatile thanks to the components of the MK system: enclosures, generation of platforms, safety and cone recovery.

Accesses by means of ladders between the different platforms that make up the ATR self-climbing system.





1 It can adapt to complex wall geometries.

2 Guaranteed safety at all work levels.

MBP MESH HANDRAIL

Perimeter safety in accordance with standard EN 13374

The MBP metal protection is a temporary anti-fall safety system for concrete structures and different ULMA formwork systems. The system complies with standard EN 13374, class A, and consists of anchors, posts and meshes.

COMPATIBLE WITH: *Concrete structures and different ULMA formwork systems.*

1. Meshes of different lengths that adapt to any edge geometry.
2. Light meshes and accessories that enable fast and simple assembly.

SOLUTIONS DESIGN

- **Anti-fall safety system in accordance with standard EN 13374, class A.**
- Wide range of anchors for concrete structures and ULMA formwork.
- Posts and anchors compatible with metal mesh and wooden planks.

MATERIALS SUPPLY

- **Minimal storage and transportation volume. Stackable on pallets.**

ASSEMBLY, USE AND DISMANTLING

- **Dense mesh that prevents the fall of objects.**
- **Possibility of increasing the height of the protection** by using supplements.
- **Reinforced corners without sharp edges and a 30 cm toeboard** folded at the bottom.

HANDRAIL POST AND ACCESSORIES
Anti-fall safety system

Provisional protection system to prevent the fall of individuals and objects to a lower level from roofs, edges and other areas requiring protection.

COMPATIBLE WITH: *Concrete structures and different ULMA formwork systems.*

1. Anchoring for wooden beams.
2. Anchoring for concrete walls.

SOLUTIONS DESIGN

- **System in accordance with Spanish standard UNE EN 13374 and certified as class A by various certifying bodies.**
- Wide range of anchors for concrete structures and ULMA formwork.

ASSEMBLY, USE AND DISMANTLING

- Possibility of covering the system with **U type safety nets (as per Spanish standard UNE EN 1263-1).**
- System valid for winds up to 151 km/h.

SARE SAFETY NET
Slab edge collective protection

Collective protection system for slab edges designed to break the fall of individuals and objects, designed as per Spanish standard UNE-EN 1263. It covers 3 m in width on the outside of the slab, and it protects up to a height of 6 m.

1. Independent modules that cover a slab length of 4.5 m or 6 m.
2. The modules are assembled at the bottom of the building, to be subsequently lifted to the slab.

SOLUTIONS DESIGN

- It consists of a metal structure and a net, following the standard's T system.
- The design of the net takes into account operator safety during the assembling and dismantling of the assembly, as well as during its use.

ASSEMBLY, USE AND DISMANTLING

- **Safe assembly** procedure.
- Since this is a device that is placed on the outside of the slab, **it allows full mobility of the workers** for all material movement and work operations.
- Due to the flexibility and elasticity of the system, when the net receives an impact it creates a pocket that dampens the fall and prevents the object from bouncing off out of the system.

BRIO EDGE PROTECTION
Safety on edge work

Protection system that prevents the fall of individuals and objects to a lower level from roofs, edges and other areas that require protection. The BRIO edge protection provides a solution for the protection of edges and roofs, and it can additionally include a metal perimeter enclosure or net.

SOLUTIONS DESIGN

- Edge protection **tested in accordance with NF marking rules based on standard EN 13374:2004, class C.**

ASSEMBLY, USE AND DISMANTLING

- **With non-slip sheet platforms with holes for water draining.**
- **Polythene meshes or metal handrail** to prevent the fall of items and even for removing the feeling of being working at height.

1 The system is assembled following the progress of construction.

2 Protection of the roof edge.

HWS PERIMETER PROTECTIVE SCREEN

Protection that can adapt to different geometries

Safety item for the perimeter of high-rise buildings. It covers the floor that is being constructed and the floors immediately below it. It is based on the MK system, it can adapt to different geometries and the screens go up levels by means of a crane or a hydraulic system.

SOLUTIONS DESIGN

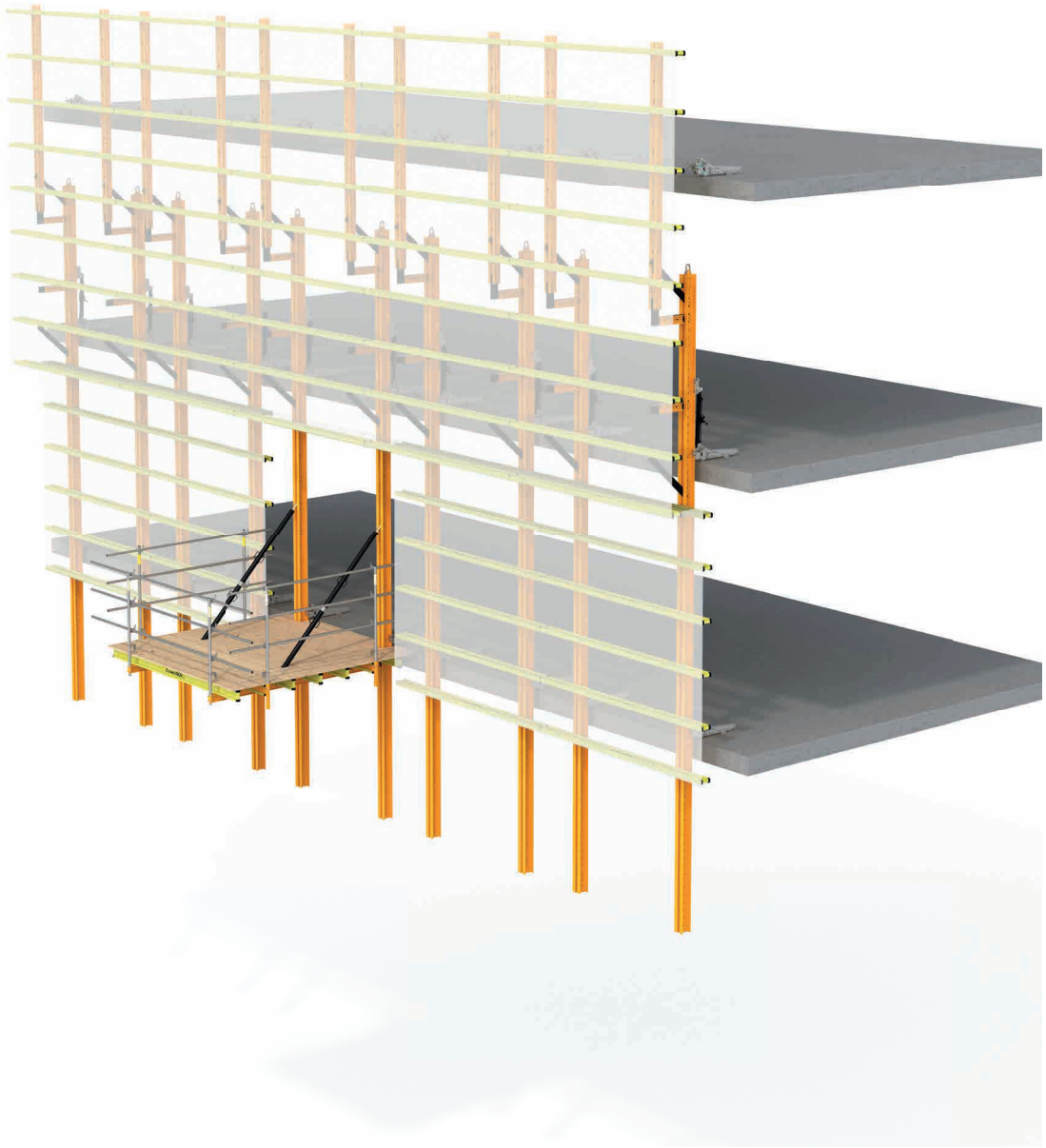
- Designed to adapt to any geometry, **thus closing all the openings on the perimeter.**

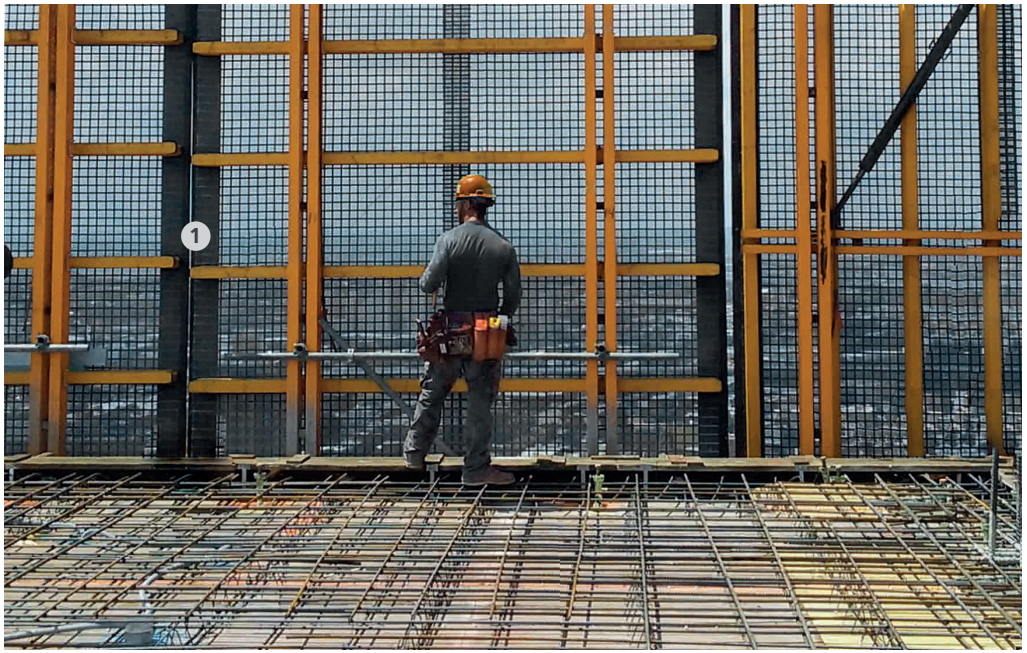
MATERIALS SUPPLY

- **Possibility of preassembly at the warehouse.**

ASSEMBLY, USE AND DISMANTLING

- It closes all the openings of the perimeter and **prevents the fall of operators or objects from the slab edge. It also protects pedestrians from falling debris.**
- Platform for work on the slab edge.
- **It provides accesses** between the top levels of the building.
- **It removes the negative visual effect caused by height.**
- **Excellent protection against adverse weather conditions.**
- It allows using different types of protective screens: board, net, polycarbonate, sheet, mesh etc.
- **Debris section:** It provides an extension of the slab as a perimeter platform for working and stacking materials. It prevents the fall of debris during the removal of tables, and it also provides a large surface for publicity, visible from a large distance away.





1 Safe work space.

2 Multiple perimeter protection configurations.

BRIO LADDERS

Safe accesses to any point

They allow comfortable and safe access to all kinds of construction and renovation sites. Their design is simple, with a reduced number of parts, which allows for easy and speedy assembly. Furthermore, they can reach tall heights with ladder widths between 0.70 m and 2 m.

· BRIO 70 ladder
· BRIO ALU 70 ladder
· BRIO ladder 100/200
· BRIO pedestrian ladders

SOLUTIONS DESIGN

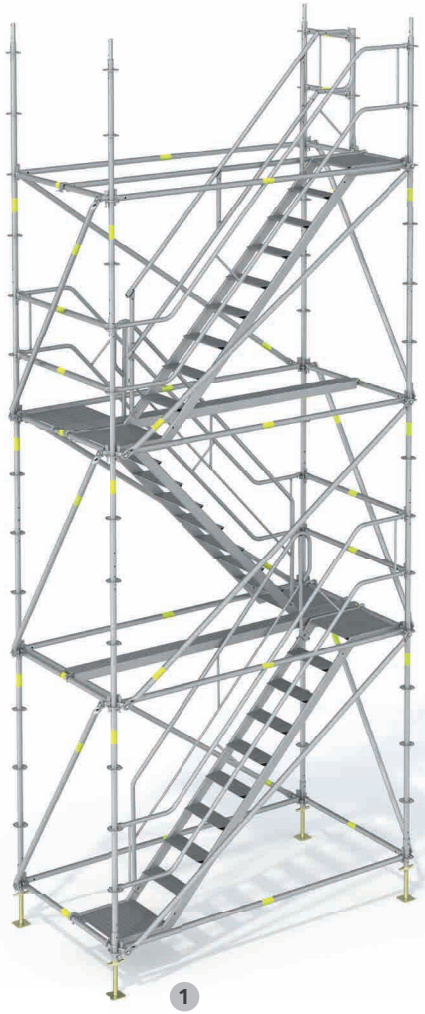
- They comply with the requirements established in the Spanish standard **UNE EN 12811-1** in the section on accesses between levels.

MATERIALS SUPPLY

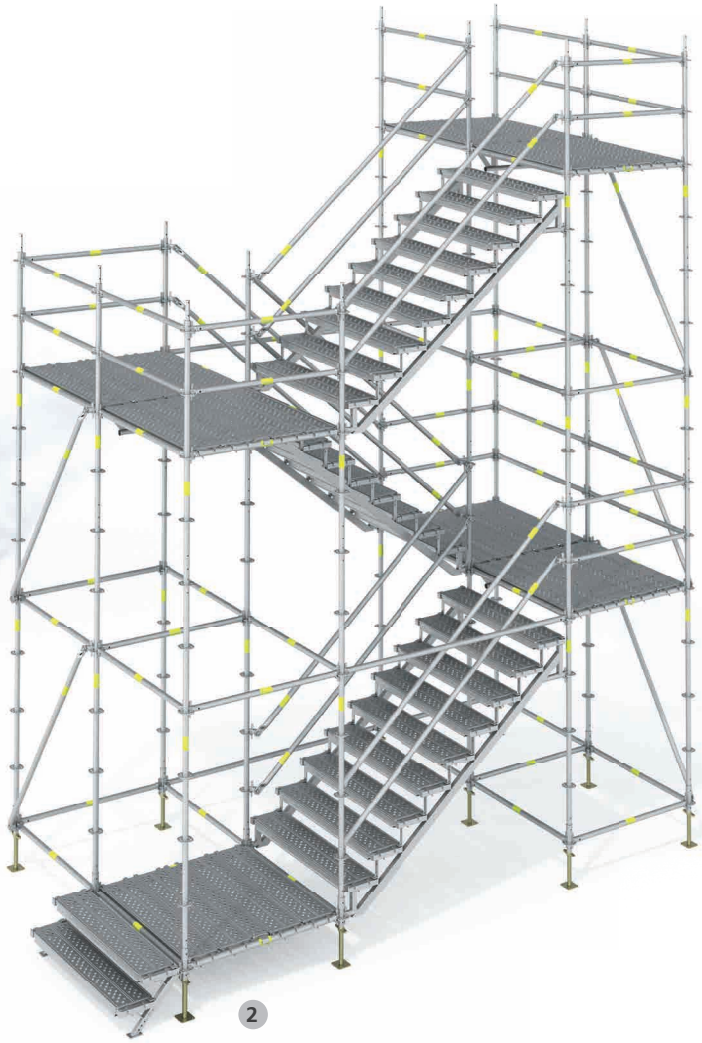
- With aluminium/steel **preassembled ladder components that can be transported with a crane.**

ASSEMBLY, USE AND DISMANTLING

- **Stable and safe access surfaces,** with different possible landings.



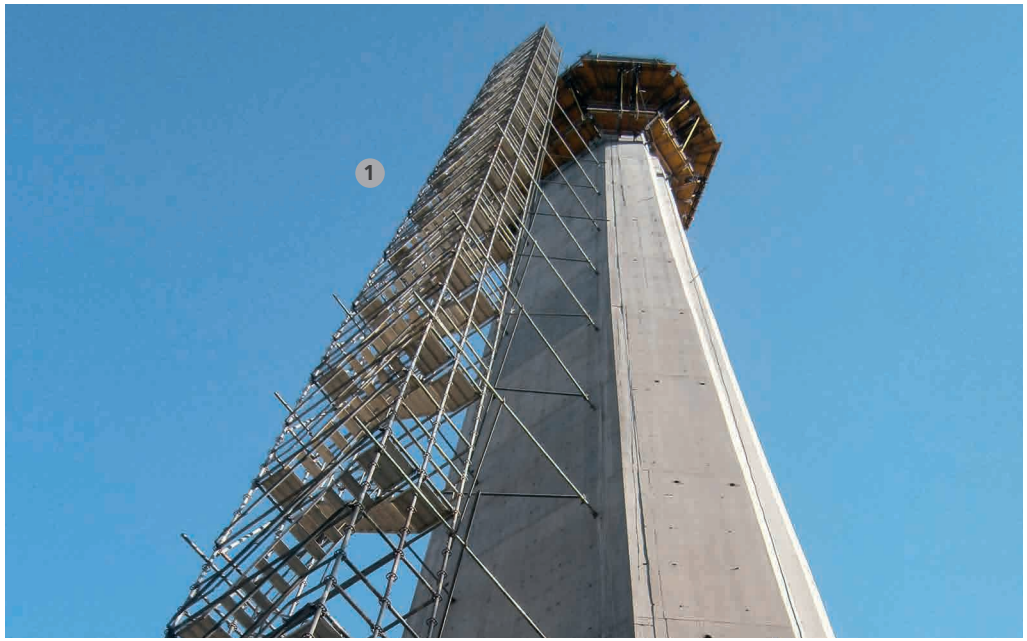
1



2

1 BRIO ALU-70 ladder. Ladder gradient of 45°, allowing comfortable and safe use.

2 Wide BRIO ladder 100/200.



1 It allows reaching tall heights by anchoring it to the construction. 2 BRIO pedestrian ladders with protection against the fall of objects to a different level.

BRIO/MK FOOTBRIDGES
Multiple configurations of accesses

Temporary structures that provide safe transit and accesses both to operators and to pedestrians. They are assembled combining two of ULMA's most versatile products: the MK system for the main structure and support towers and the BRIO multidirectional scaffolding for the ladders.

1. BRIO/MK footbridge with ramp.
2. BRIO footbridge with ladder.

SOLUTIONS DESIGN

- **They adapt to any geometry.**

ASSEMBLY, USE AND DISMANTLING

- **Preassembly** of the main component at the warehouse.
- **Non-slip boards and handrails** included in the system.

LIFTING ITEMS, PALLETS AND WIRE CRATES
Safe movement of materials

Structures to aid the movement and maintenance of the products. They can be lifted with the help of forklifts or cranes and transported from one place to another safely and tidily with the product inside them.

1. Lifting hooks on ORMA wall formwork.
2. Hook VR for the movement of VR tables.
3. Pallets and wire crates for beams and panels of the CC-4 horizontal formwork.

SOLUTIONS DESIGN

- ULMA's lifting items **have the corresponding CE marking**, required in accordance with European Directive 98/37/EC on machinery, since this is a "lifting accessory" when a crane is used for its maintenance.

MATERIALS SUPPLY

- Besides **protecting the products from impacts,** the pallets and wire crates can be stacked on top of each other, thus minimising storage space.

We are strongly committed to Safety. We offer state-of-the-art products and solutions that adapt to any requirements. This is consumer proximity. This is ULMA.

The solutions that are made with our products must be designed, directed its assembly and inspected before using them by qualified technicians and assembled by qualified personnel.

The current safety provisions of the state or professional organisations in each country must be followed when assembling, using and distmantling our products.

The pictures in this document are snapshots of situations or different stages of assembly, and therefore are not complete images for safety purposes and should not be deemed as definitive.

All instructions regarding safety and operation contained in this document must be respected and completed, together with other preventive measures as specified in legislation, regulations and the risk assessment applicable to the project and/or work site. Any changes or special assembly will require a special solution or calculation.

Our equipment is designed to work with our company's accessories and components. Their use together with other manufacturers' systems may be dangerous without conducting the corresponding checks.

The company reserves the right to introduce any modifications required by the technical development of the product.

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