

EPS - Edge Protection System





We are Swedish-Polish group specialising in the design and production of solutions for the industrial and construction sectors.

We are able to predict the challenges in the next stages of construction and industrial project.

Keep calm due to our experience.

20 000+ m² of production space in three automated facilities

2005 the year we started

15 branches throughout Europe

50+ countries where our projects are located

Manufacturer, TLC Sp. z o.o., holds Enviromental Product Declaration in acc. with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for industrial communication systems including stairs, railings and fencings.



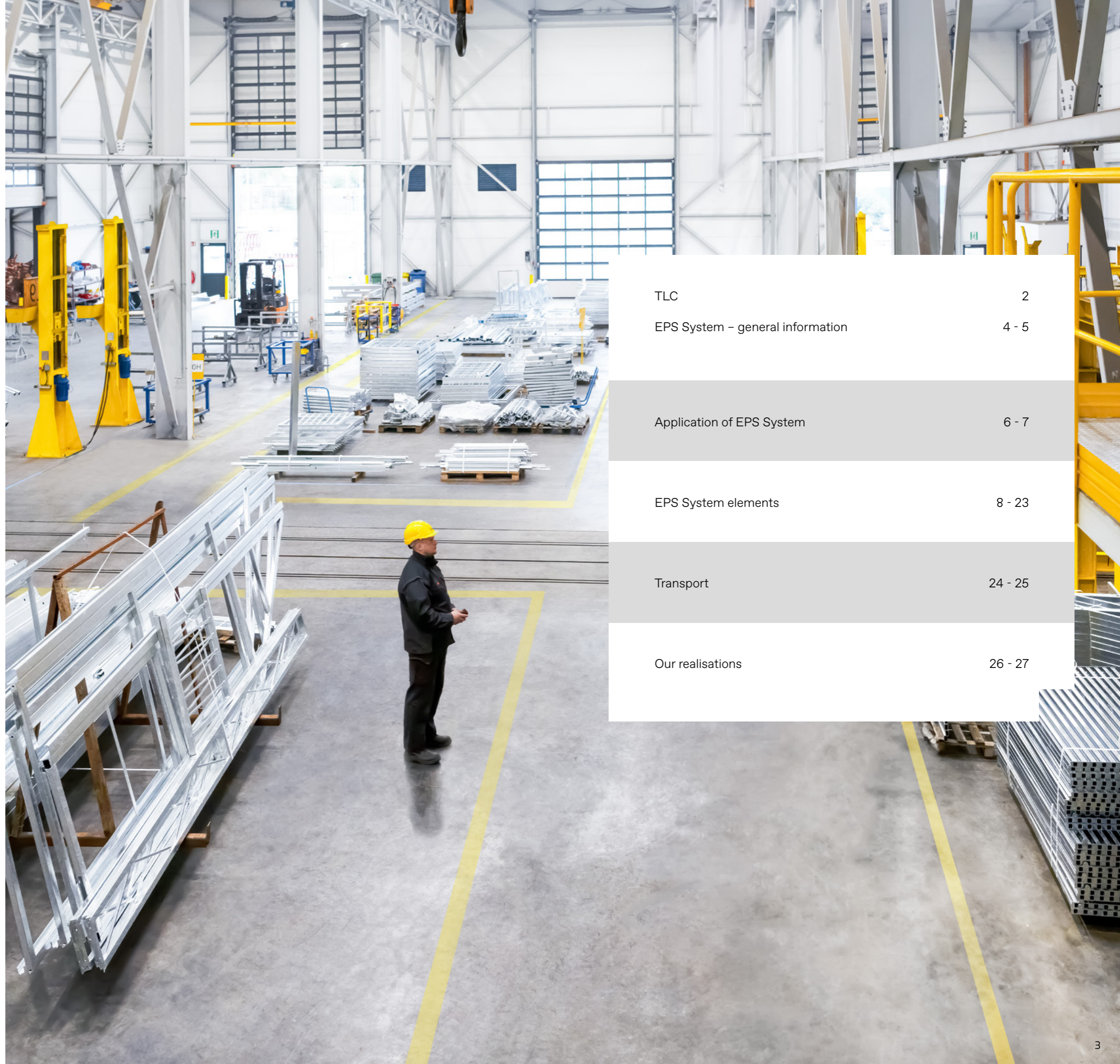
TLC's production plant has implemented Factory Production Control according to EN 1090-1 and welding quality system according to PN-EN ISO 3834-2, both certified by TUV SUD Polska.

TLC's production plant has been certified with the Integrated Management System of Quality, Environment and OHS (ISO 9001/ ISO 14001/ ISO 45001) issued by Bureau Veritas Certification.



The information contained in this advertising material is provided for informational purposes only.

The product specification should be checked aganist the technical documentation provided by the manufacturer.



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EPS System

General Information

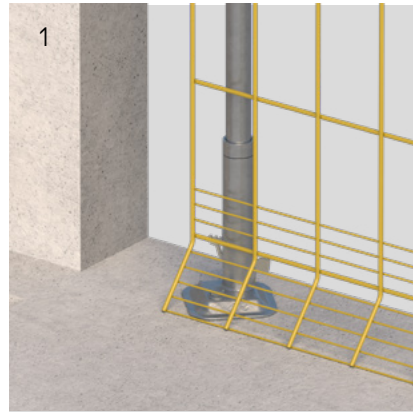
Edge Protection System is a modern security system made in compliance with the class A EN 13374:2013-08 standard, dedicated to secure building and construction site edges, technological openings, passageways and other places where there is risk of falling from height.

Standard features of available solutions:

- Easy, well-thought out and tested solutions that guarantee reliability and the highest possible safety level
- Robust anti-corrosive protection to provide long-term durability of all elements even if utilized
- Assembly of the system elements does not require highly-qualified personnel
- Wide offer of holders and fixings
- Special transport baskets facilitate loading, unloading, transport and storage of all elements
- The product received a positive opinion of Mechanised Construction and Rock Mining Institute for compliance with EN 13374:2013-08 standard.



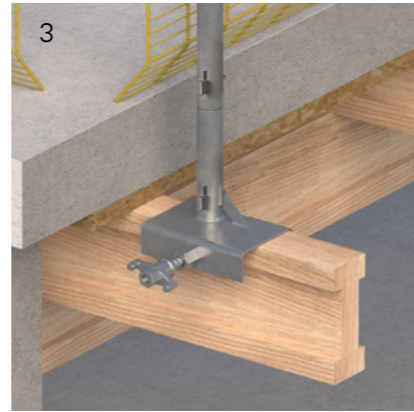
Application of EPS System



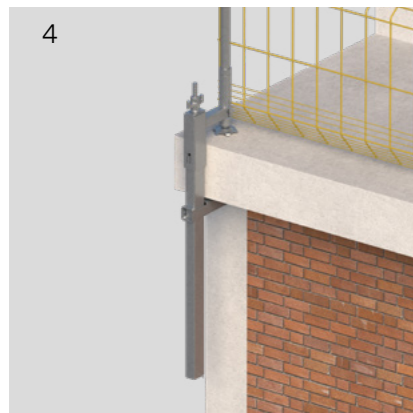
Horizontal screw-fastened holder



Vertical screw-fastened holder with extension



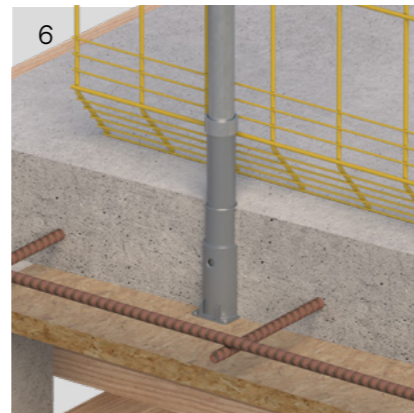
Girder holder



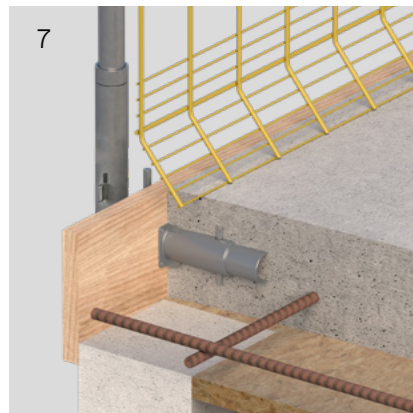
Clamping holder L500/1800



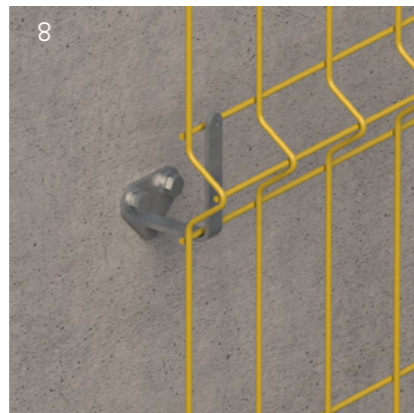
Stair holder



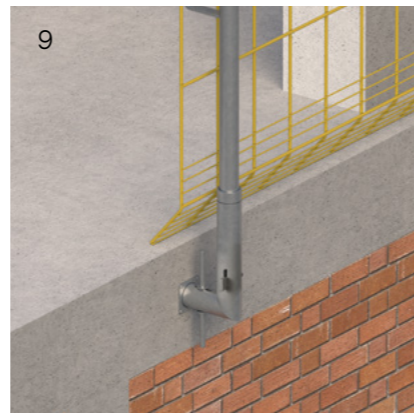
Horizontal permanent holder



Vertical permanent holder



Wall holder



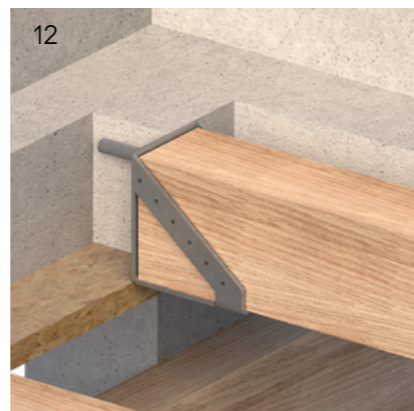
Latching holder



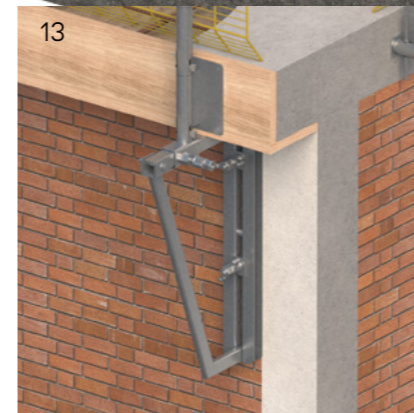
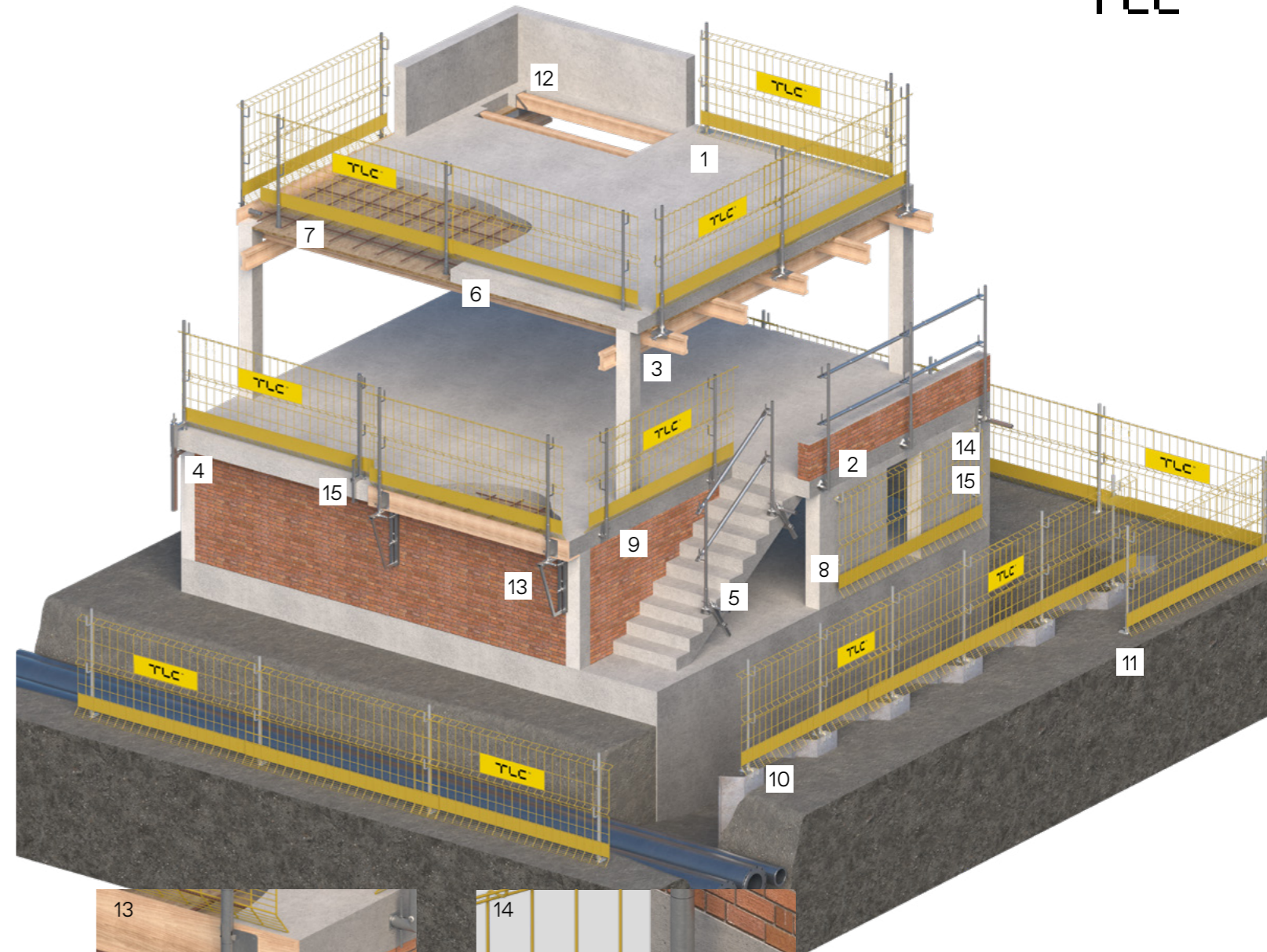
Steel structures holder



Drop-in holder



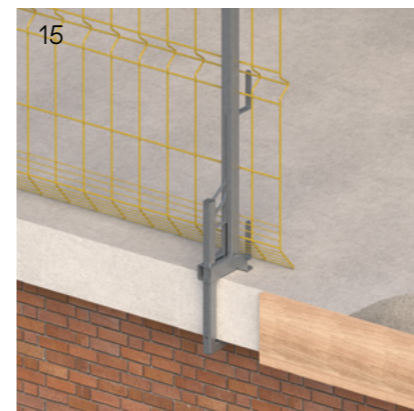
Working platform holder



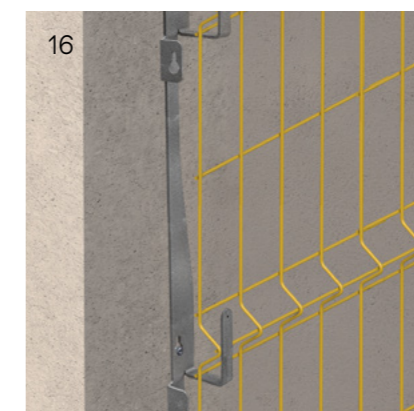
Formwork girder



Facade holder

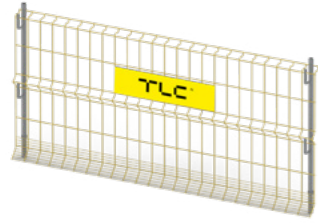


Bracket clamp with post



Double wall holder

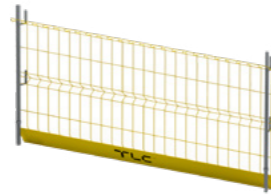
EPS System elements



Mesh panel EPS-PAN-ECO3
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Mesh panel EPS-PAN-ECO3-H
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Mesh panel EPS-PAN-I
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Mesh panel EPS-PAN-I-H
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Plank EPS-D
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Scaffolding tubes EPS-R
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System post EPS-SL-V3
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Post extension EPS-PRS
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Horiz. screw-fastened holder PS-UPZ-V2
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Vert. screw-fastened holder
EPS-UPN-V2
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Girder holder EPS-UDZ-V2
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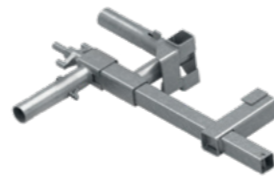
Holder for steel structures EPS-UG
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Latching holder EPS-UZT-V2
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Clamping holder 500
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Stair holder EPS-UUN-V4
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Horiz. permanent holder EPS-UZH-V2
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Vert. permanent holder EPS-UZV-V2
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Drop-in holder EPS-UW-V3*
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Plank lower holder EPS-UDS
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Working platform holder EPS-UPR
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Wall holder
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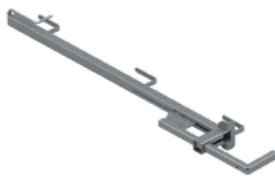
Double wall holder EPS-US2
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Formwork girder EPS-USZ
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Facade holder EPS-USP
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Bracket clamp with post EPS-UUS
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Steel foot EPS-PU*
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Transport basket W-TM-SD3
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Transport basket W-TM-SD1
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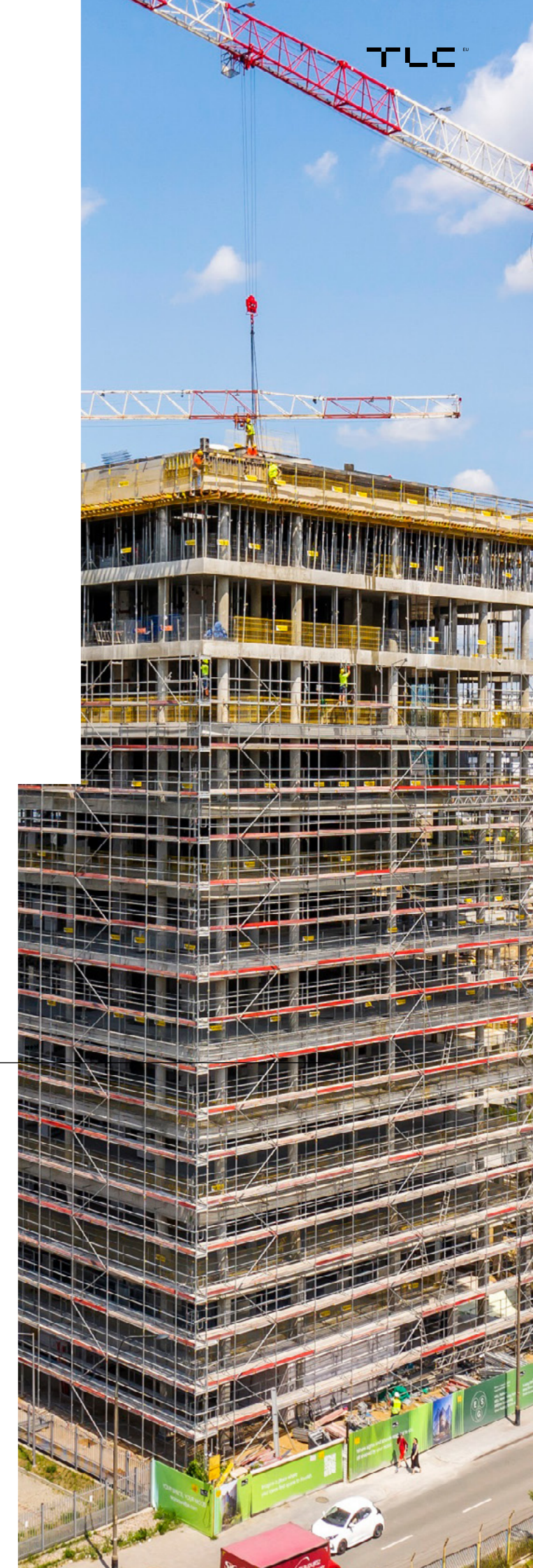


Transport basket W-TM-SD2
PAGE 24-25

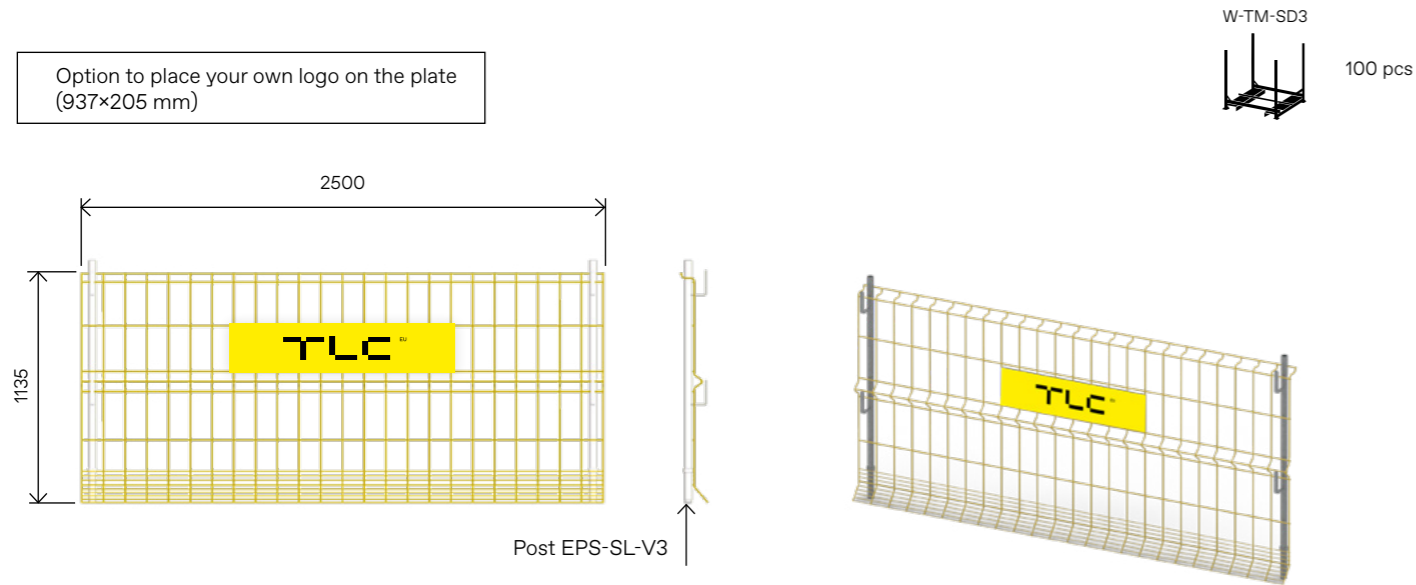


Wooden box pallet W-TM-SD4
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*These components do not fulfill the EN 13374:2013-08 standard requirements

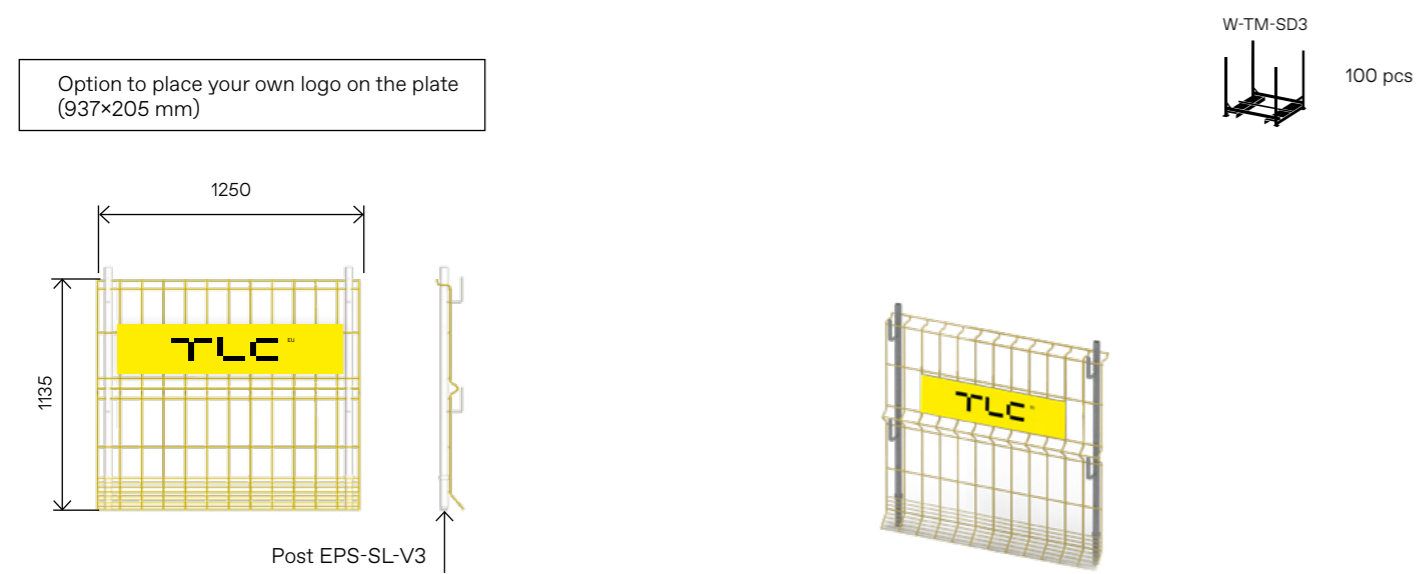


EPS ECO Panel 1100×2500mm – consists of galvanized steel rods which are resistant. The maximum distance between posts is 2400 mm. Panel available in galvanized or powder coated version.



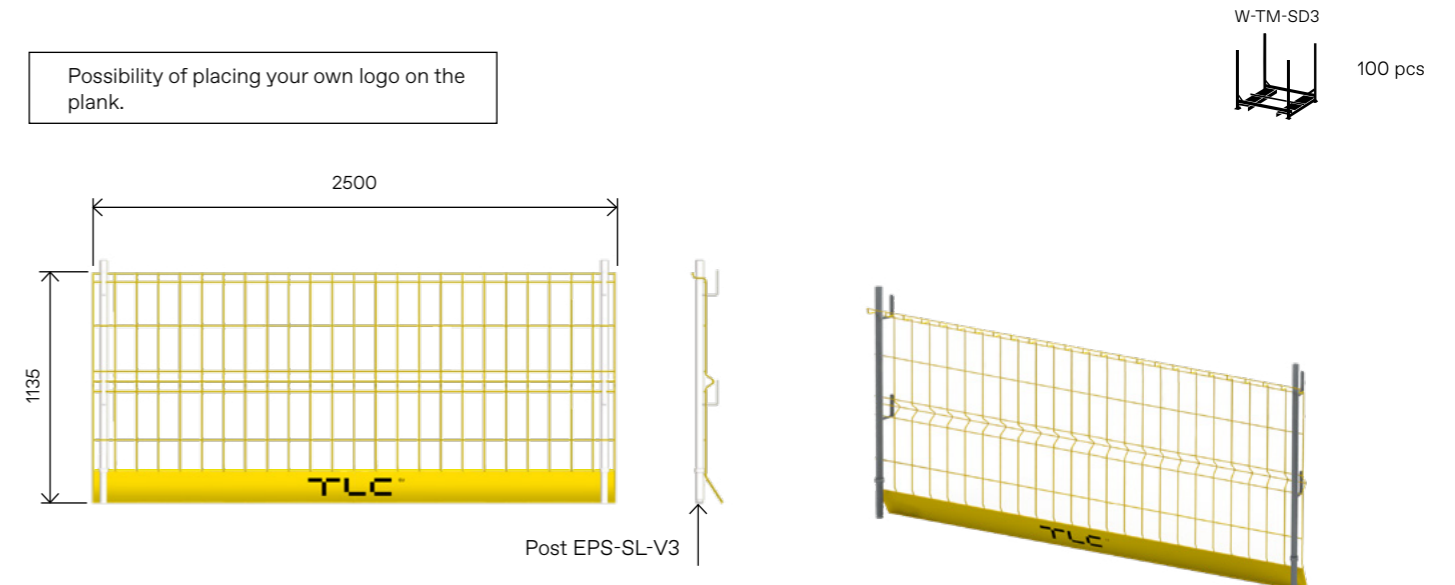
| | |
|----------------|--|
| APPLICATION | Protecting the working edge against falling people, tools or construction materials. |
| WEIGHT | 12 kg |
| WIRE DIAMETER | 3 mm (bottom fold), 6 mm |
| PRODUCT NUMBER | EPS-PAN-ECO3 |

Eco Panel 1100×1250mm – consists of galvanized steel rods which are resistant. The maximum distance between posts is 1150 mm. Panel available in galvanized or powder coated version.



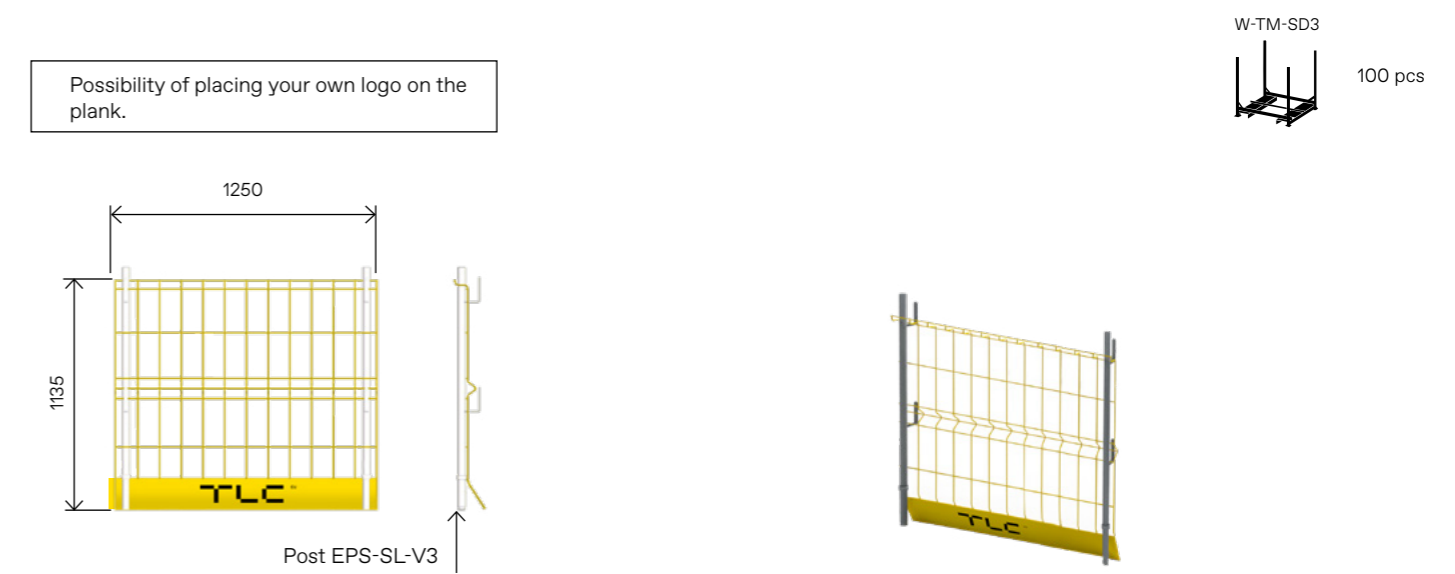
| | |
|----------------|--|
| APPLICATION | Securing the edge of the work area to prevent falls. |
| WEIGHT | 6,2 kg |
| WIRE DIAMETER | 3 mm (bottom fold), 6 mm |
| PRODUCT NUMBER | EPS-PAN-ECO3-H |

Panel 1100×2500mm - consists of galvanized steel rods which are resistant. The maximum distance between posts is 2400 mm. Panel available in galvanized or powder coated version.



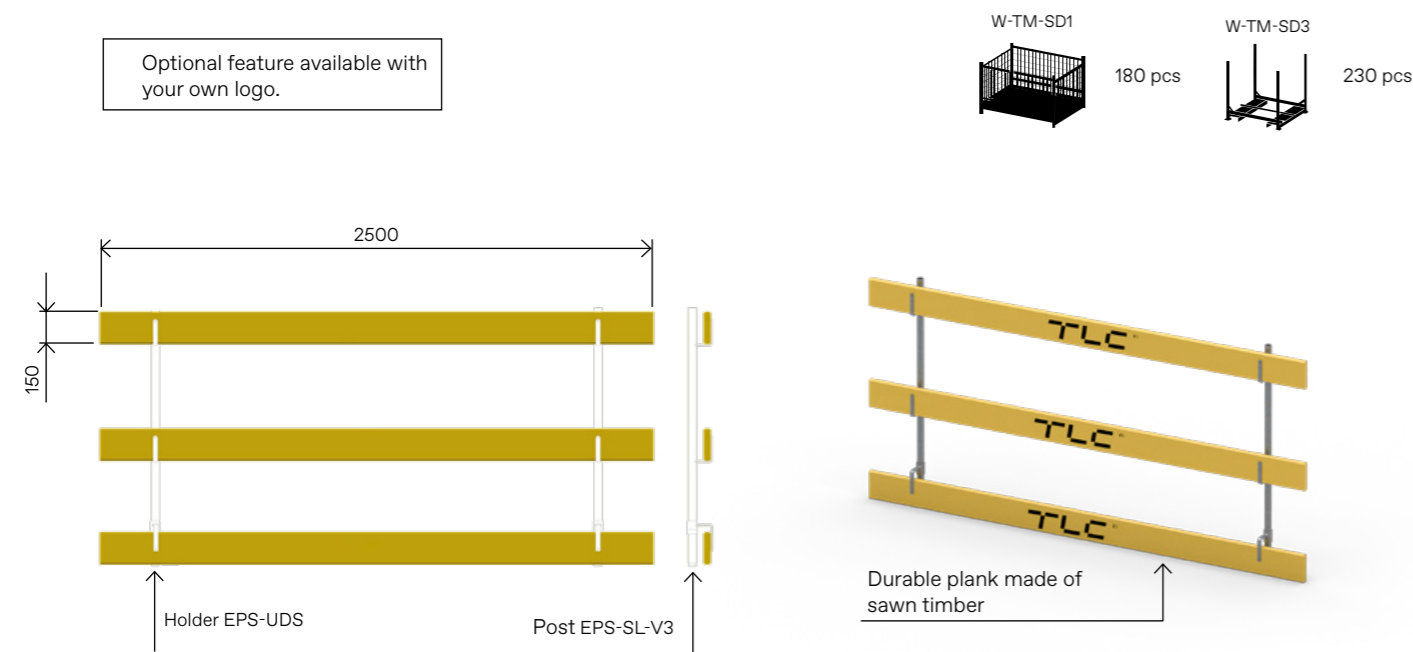
| | |
|----------------|--|
| APPLICATION | Protecting the working edge against falling people, tools or construction materials. |
| WEIGHT | 14,7 kg |
| WIRE DIAMETER | 6 mm |
| PRODUCT NUMBER | EPS-PAN-I |

Panel 1100×1250mm - consists of galvanized steel rods which are resistant. The maximum distance between posts is 1150 mm. Panel available in galvanized or powder coated version.



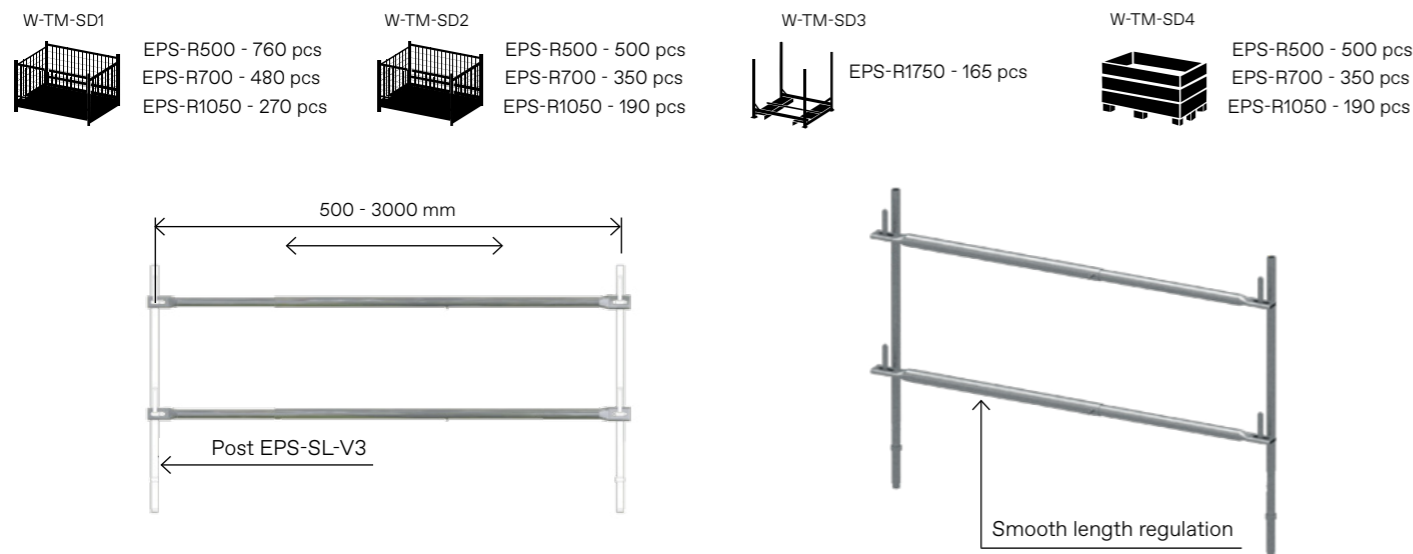
| | |
|----------------|--|
| APPLICATION | Securing the edge of the work area to prevent falls. |
| WEIGHT | 7,4 kg |
| WIRE DIAMETER | 6 mm |
| PRODUCT NUMBER | EPS-PAN-I-H |

Timber planks in 2500 × 150 mm dimension. The maximum distance between the posts is 2000 mm.



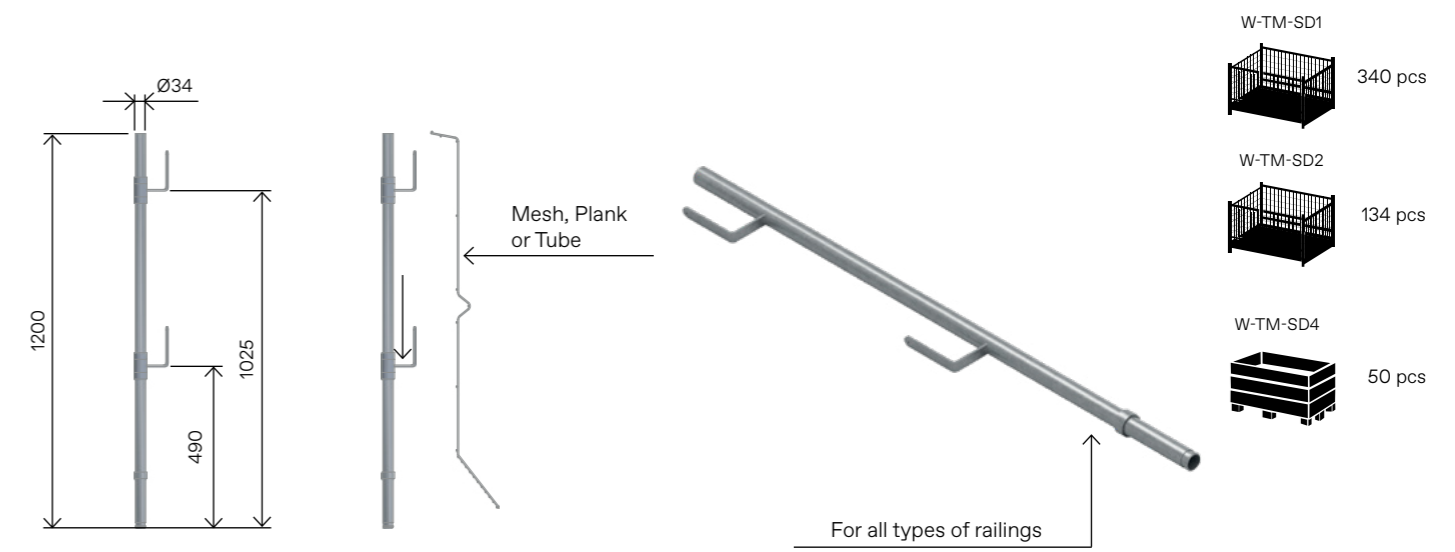
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|-----------------|---|
| APPLICATION | Protecting the working edge against falling people. |
| WEIGHT | 6,5 kg |
| PLANK THICKNESS | 32 mm |
| PRODUCT NUMBER | EPS-D |

Scaffolding tube is made of steel and assembled on system post hooks.



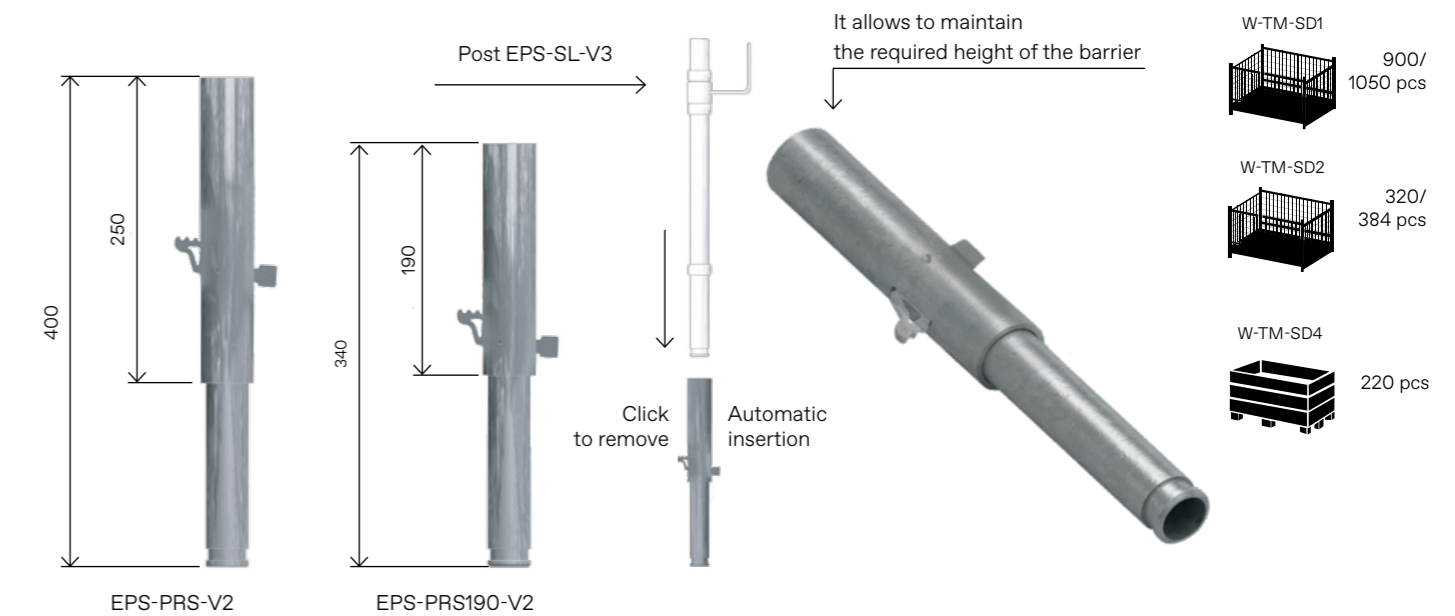
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|----------------------|---|----------------|-----------------|-----------------|
| APPLICATION | Protecting the working edge against falling people. | | | |
| ASSEMBLY | Adjust the element length and assemble it on system pole hooks. | | | |
| | VERSION 500 mm | VERSION 700 mm | VERSION 1050 mm | VERSION 1750 mm |
| REGULATION RANGE (L) | 500 - 700 mm | 700 - 1050 mm | 1050 - 1750 mm | 1750 - 3000 mm |
| WEIGHT | 1,9 kg | 2,8 kg | 5,3 kg | 8,9 kg |
| PRODUCT NUMBER | EPS-R500 | EPS-R700 | EPR-R1050 | EPS-R1750 |

A system post with two universal handles allowing the assembly of all types of bodyguard.



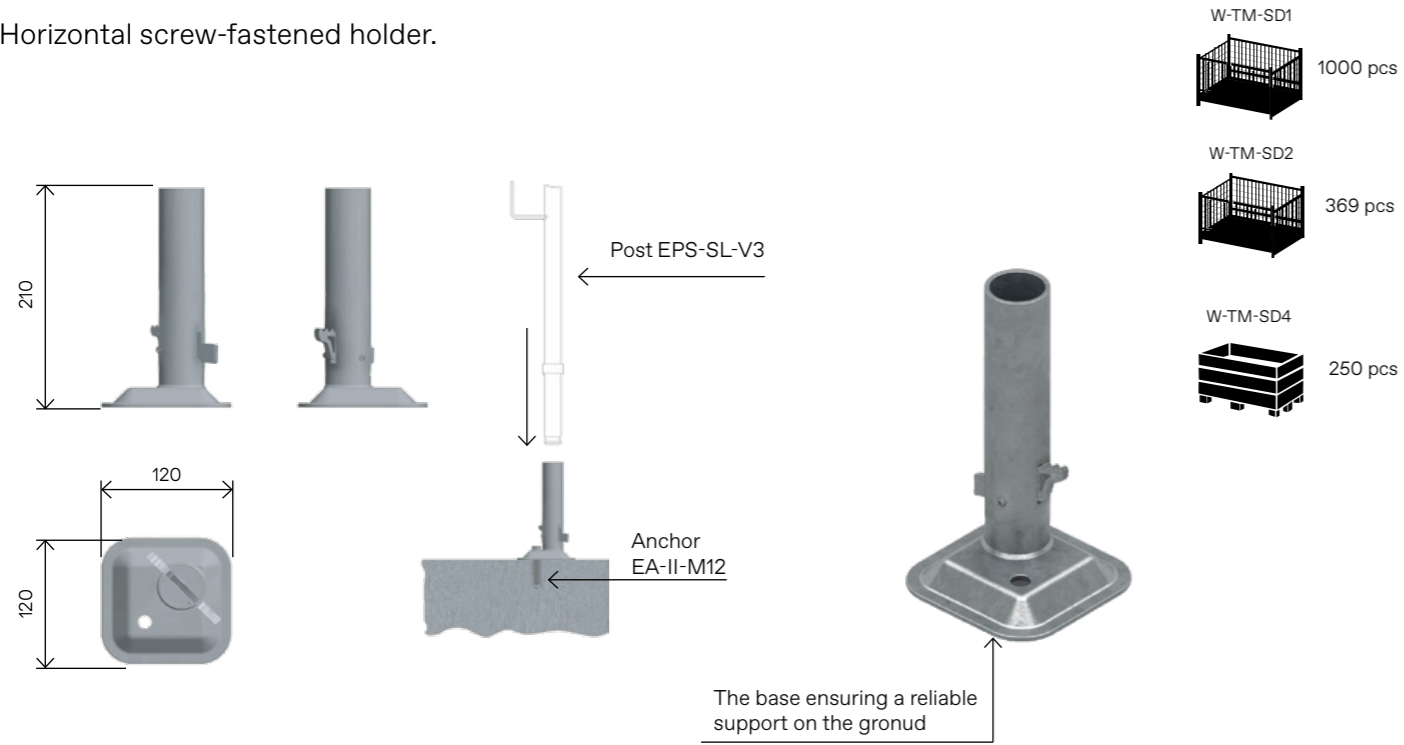
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| APPLICATION | Assembling all EPS panel types (mesh panels, planks and scaffolding tubes). |
| ASSEMBLY | Embed the post in the socket of a holder equipped with a bolt - the latchlock will secure the post automatically. Disassemble by pressing the holder's detent. |
| WEIGHT | 3,7 kg |
| PRODUCT NUMBER | EPS-SL-V2 |

Post extension - available in two sizes: 190 and 250 mm.



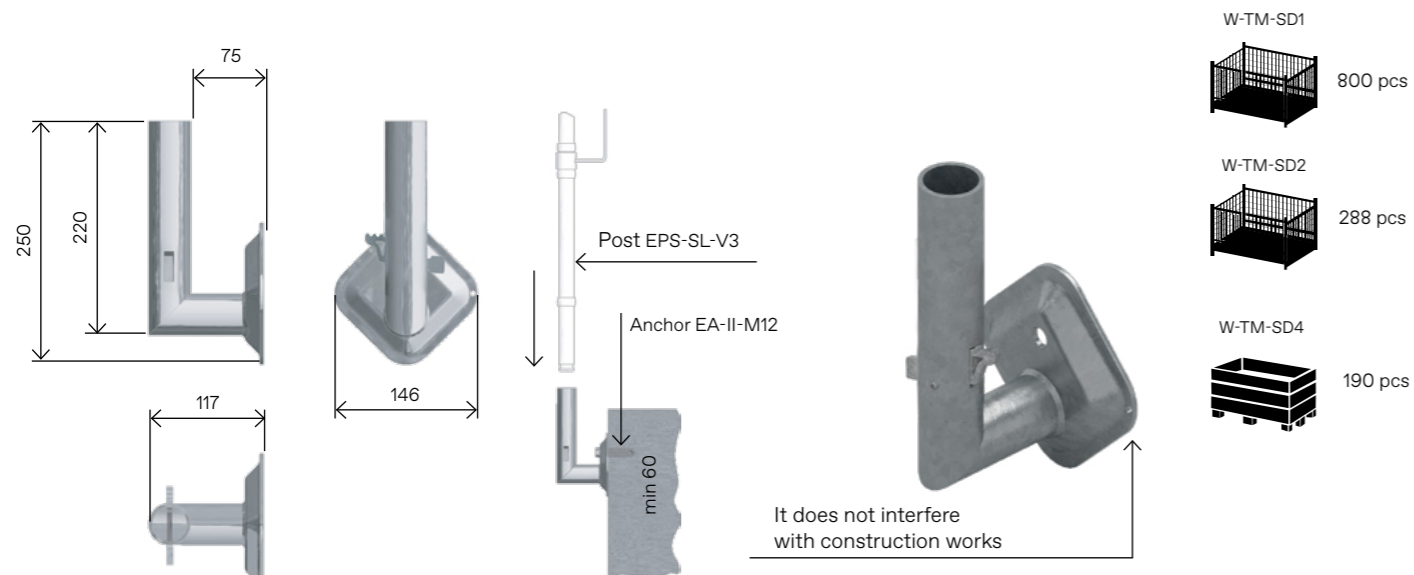
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| APPLICATION | Extending the universal pole to obtain proper protection height when using e.g. girder, structural, clamping or permanent holders. | |
| ASSEMBLY | Assembly and disassembly of the extension is conducted in the same manner as system posts. | |
| | 250 mm version | 190 mm version |
| WEIGHT | 1,4 kg | 1,1 kg |
| PRODUCT NUMBER | EPS-PRS-V2 | EPS-PRS190-V2 |

Horizontal screw-fastened holder.



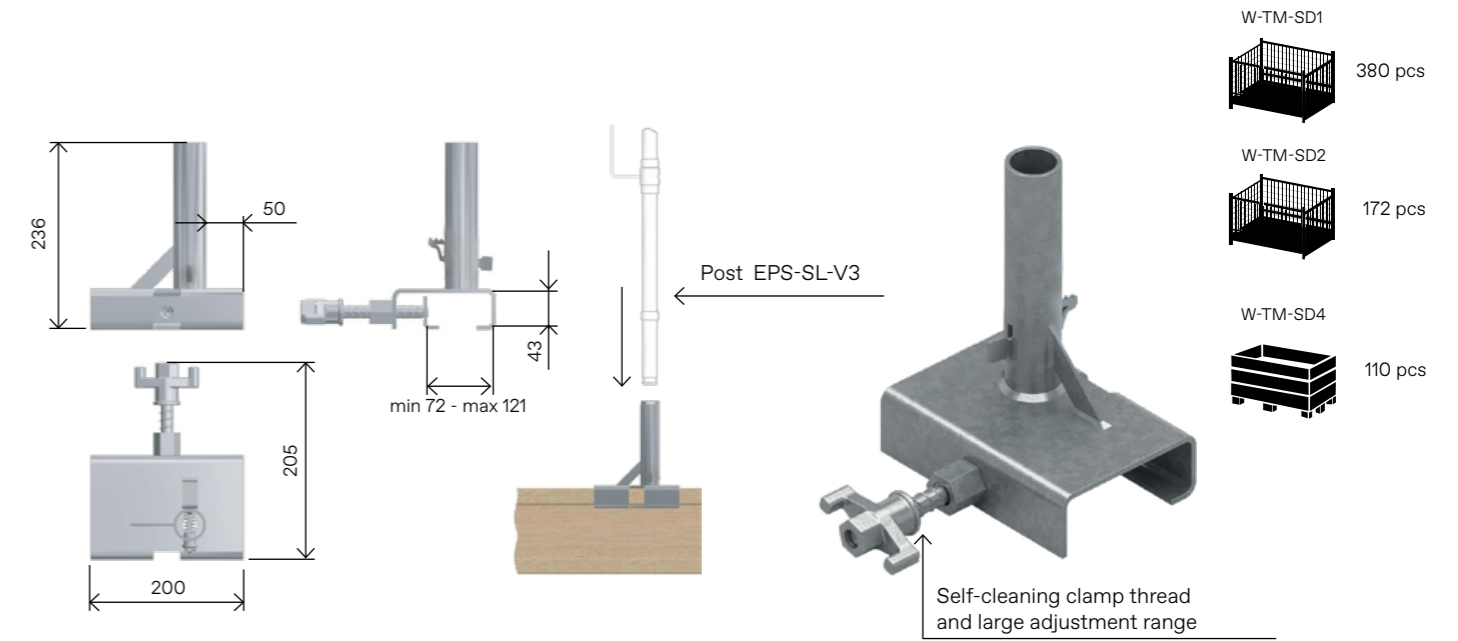
| | |
|----------------|--|
| APPLICATION | Assembling the guardrail post on horizontal working surfaces, e.g. building ceiling. |
| ASSEMBLY | Screw the holder to the previously embedded anchor with internal thread M12 - the recommended anchor for the assembly is Fischer - EA II M12. During the anchor assembly, one should follow manufacturer's instructions. |
| WEIGHT | 1,3 kg |
| PRODUCT NUMBER | EPS-UPZ-V2 |

Vertical screw-fastened holder - designed to avoid interference with most of the construction works.



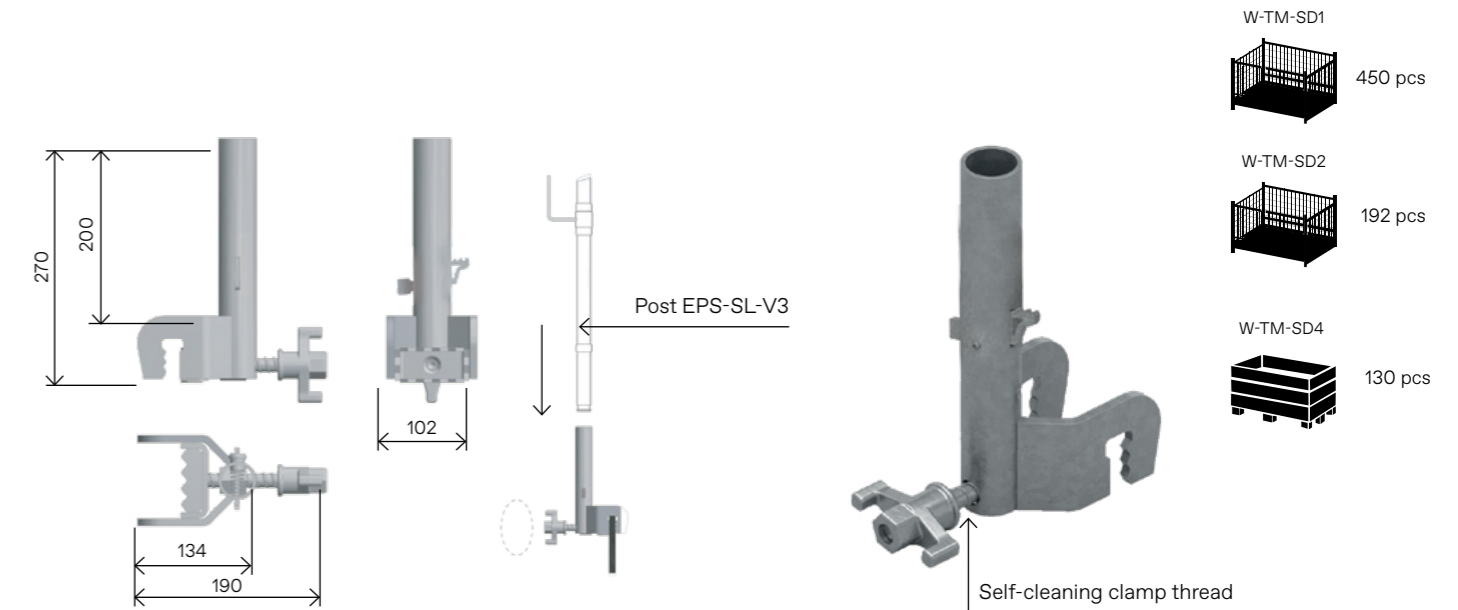
| | |
|----------------|--|
| APPLICATION | Assembling the guardrail post on vertical surface when construction external brick walls. |
| ASSEMBLY | Assembling and disassembly of the extension proceeds as in the case of the horizontal screw-fastened holder. |
| WEIGHT | 1,5 kg |
| PRODUCT NUMBER | EPS-UPN-V2 |

Girder holder - suitable for every girder height with maximum width of the upper T being 95 mm.



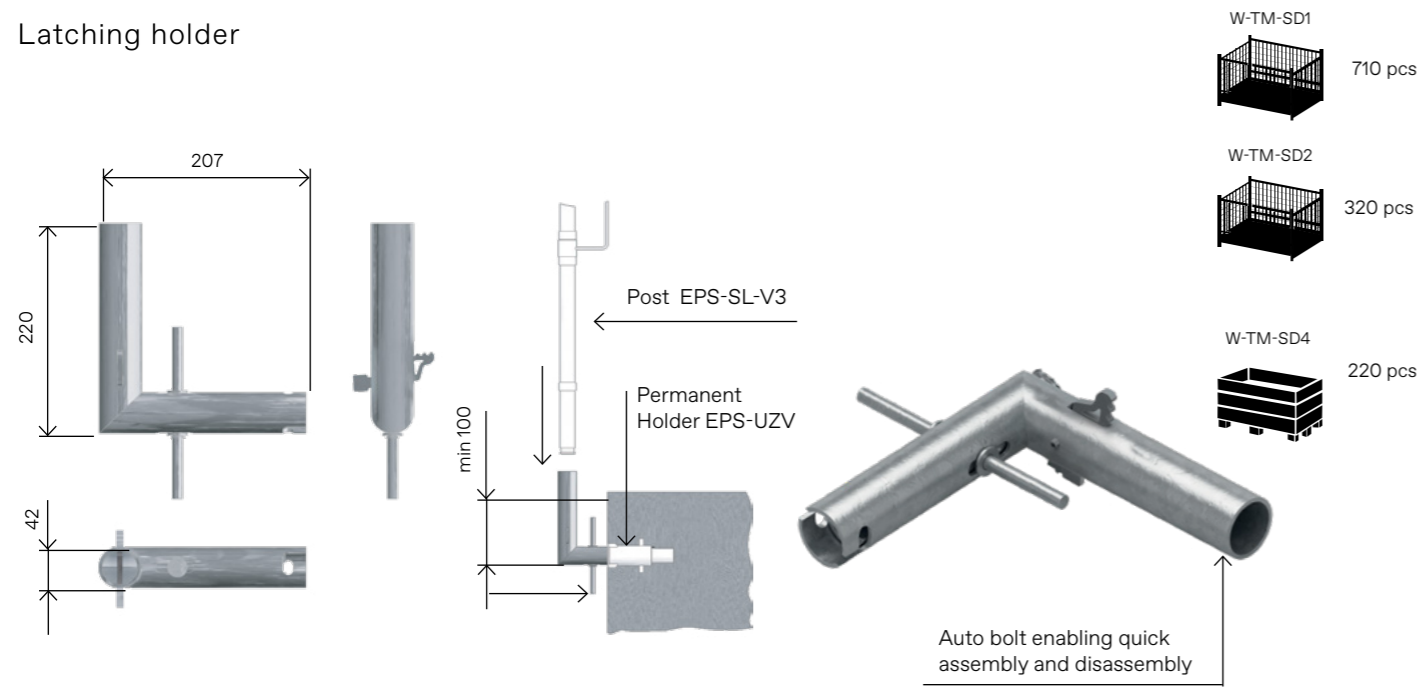
| | |
|----------------|---|
| APPLICATION | Assembling the guardrail post on girders or wooden beams. |
| ASSEMBLY | Slide the holder on the girder or beam, then tighten the clamp of the holder. |
| WEIGHT | 3,4 kg |
| PRODUCT NUMBER | EPS-UDZ-V2 |

Holder for steel structure to improve clamping of the holder equipped in teeth fastening edges.



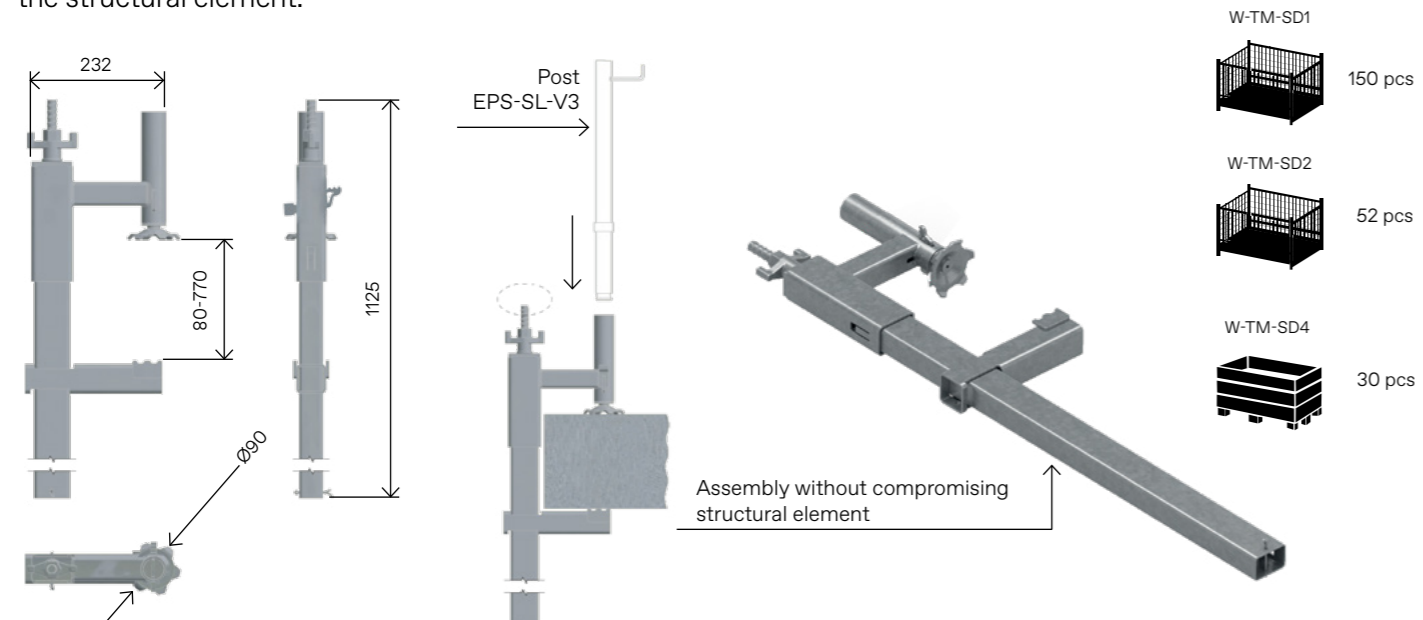
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|----------------|---|
| APPLICATION | Assembling the guardrail post on vertical steel structures like sheet piles sheet metals. |
| ASSEMBLY | Put the holder on a vertical element of the structure which maximum thickness is 16 mm, then tighten the clamp of the holder. |
| WEIGHT | 2,7 kg |
| PRODUCT NUMBER | EPS-UG-V2 |

Latching holder



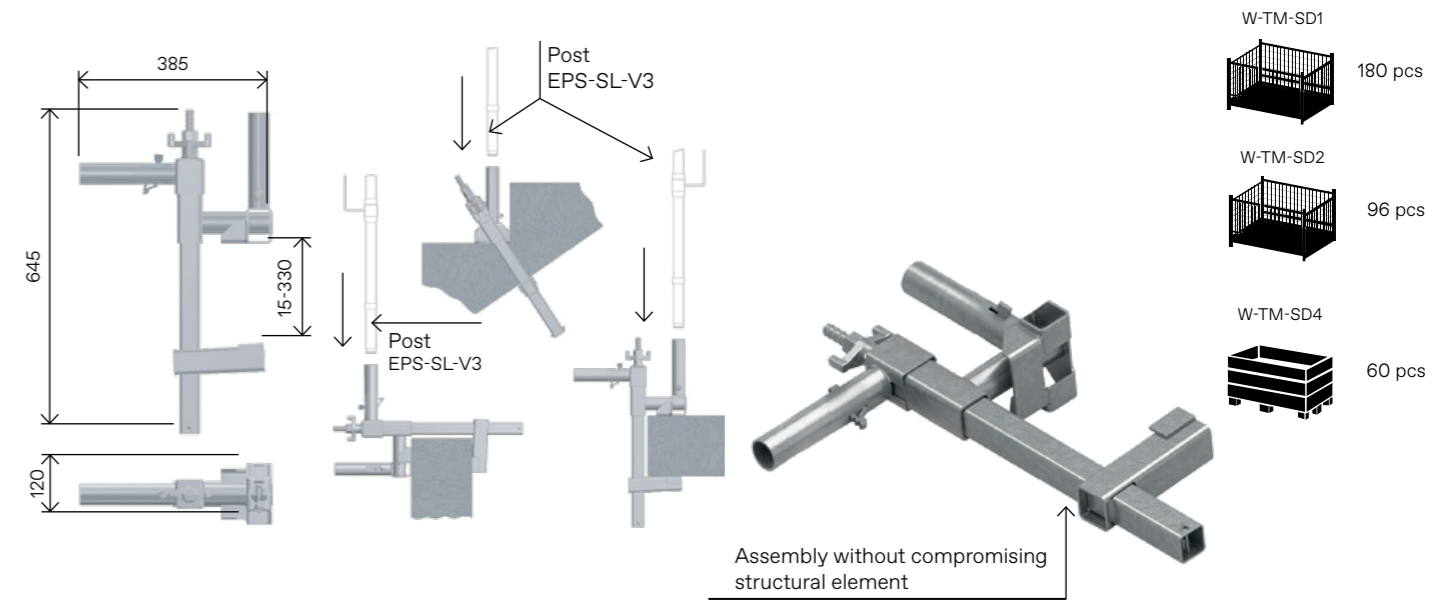
| | | |
|----------------|---|--|
| APPLICATION | Assembling the guardrail post on vertical surfaces to previously prepared permanent vertical elements. | |
| ASSEMBLY | Insert the holder at a proper angle- into the previously prepared vertical permanent holder until you feel significant resistance. Turn the holder to the vertical position - the holder will clamp. To disassemble the element pull and turn the vertical bar, then remove the element from the opening. | |
| WEIGHT | 1,7 kg | |
| PRODUCT NUMBER | EPS-UZT-V2 | |

Clamping holder - universal solution used in numerous configurations. It allows assembly without compromising the structural element.



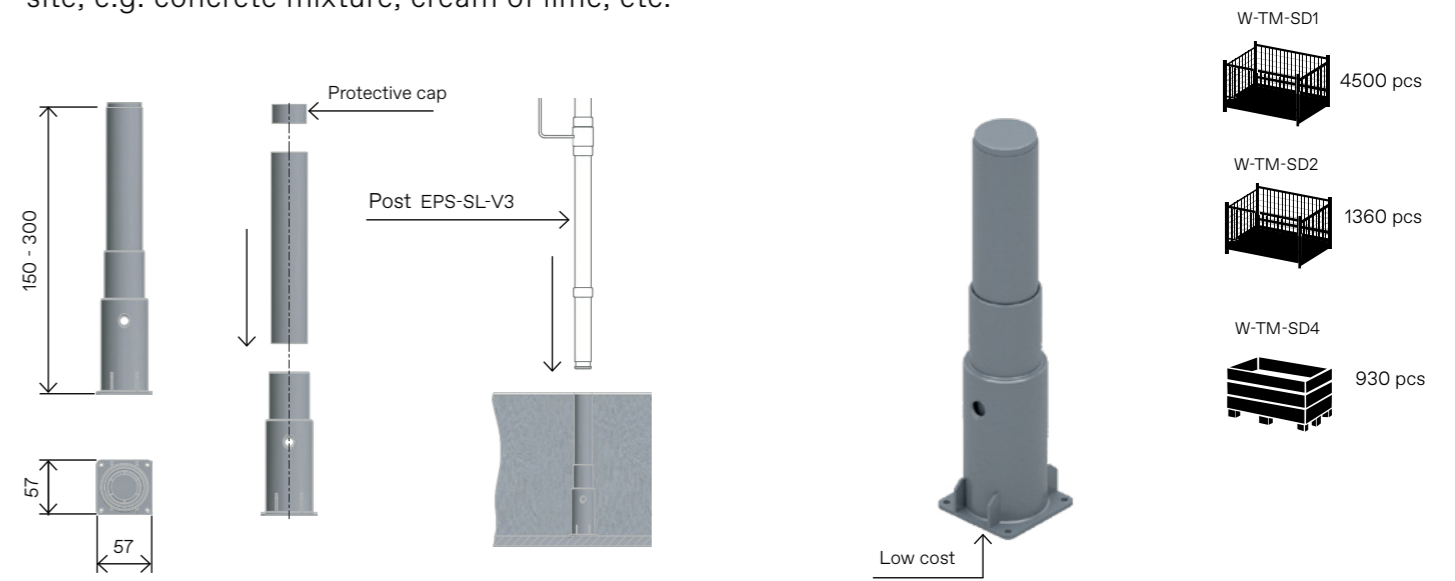
| | | |
|----------------|--|------------|
| APPLICATION | Assembling the guardrail post by clamping on horizontal surfaces. e.g. ceilings. concrete beams. staircases. | |
| ASSEMBLY | Loosen the clamp thread. adjust the lower element to a desired height so that after adjusting the element. it will still have circa. 20mm regulation range available on the pressing element. Make sure that the holder base and the dish are properly aligned in relation to the panel, then tighten the nut of the holder. | |
| WEIGHT | 8,5 kg | 5,5 kg |
| PRODUCT NUMBER | EPS-UUN800-V2 | EPS-UUN-V2 |

Universal slab/stair clamp - its design allows for a clamping range from 15 mm to 330 mm.



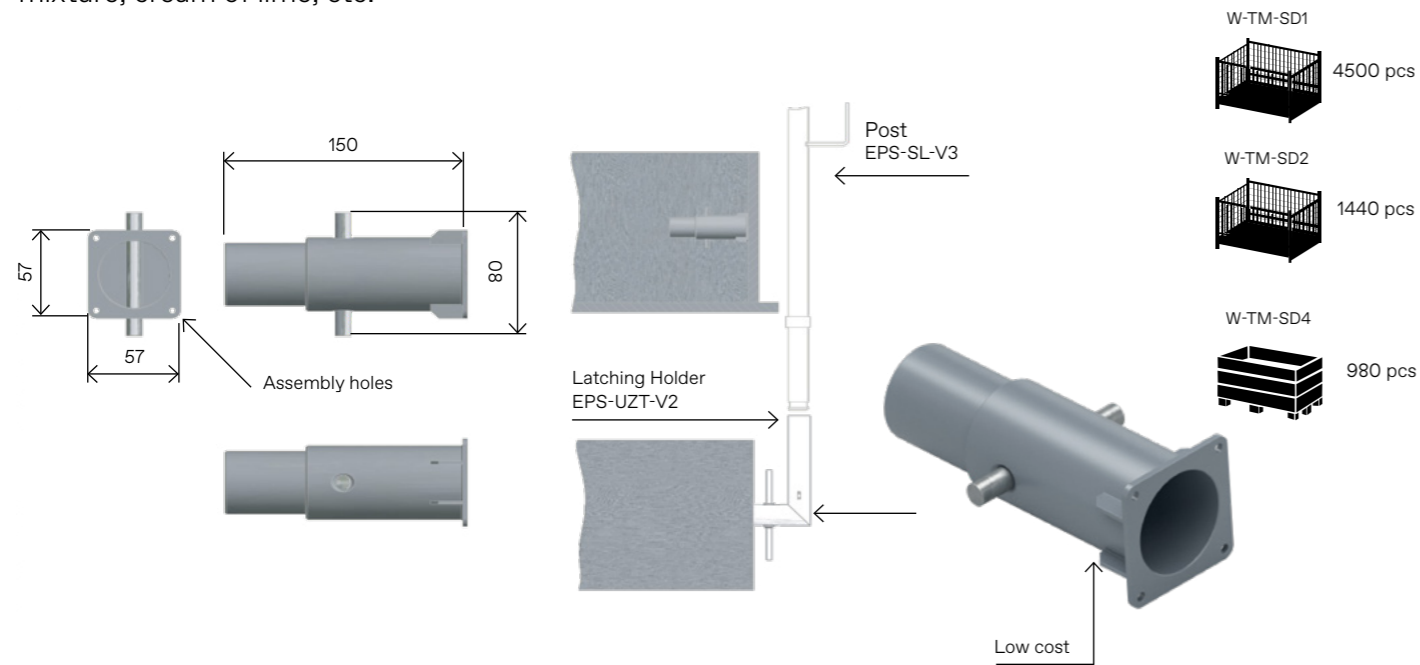
| | | |
|----------------|---|--|
| APPLICATION | Assembling the guardrail post by clamping on vertical and horizontal surfaces, e.g., ceilings, concrete beams, staircases, walls. The clamp allows for assembly on a stairs flight. | |
| ASSEMBLY | Adjust the holder to a dedicated assembly type (ceiling, wall, stairs). Loosen the clamp thread and adjust the lower adjustable element to the desired height. There should be 20 mm of regulation left on the pressing element. Tighten the nut of the holder. | |
| WEIGHT | 7 kg | |
| PRODUCT NUMBER | EPS-UUN-V4 | |

Horizontal permanent holder resistant to most of the materials used at the construction site, e.g. concrete mixture, cream of lime, etc.



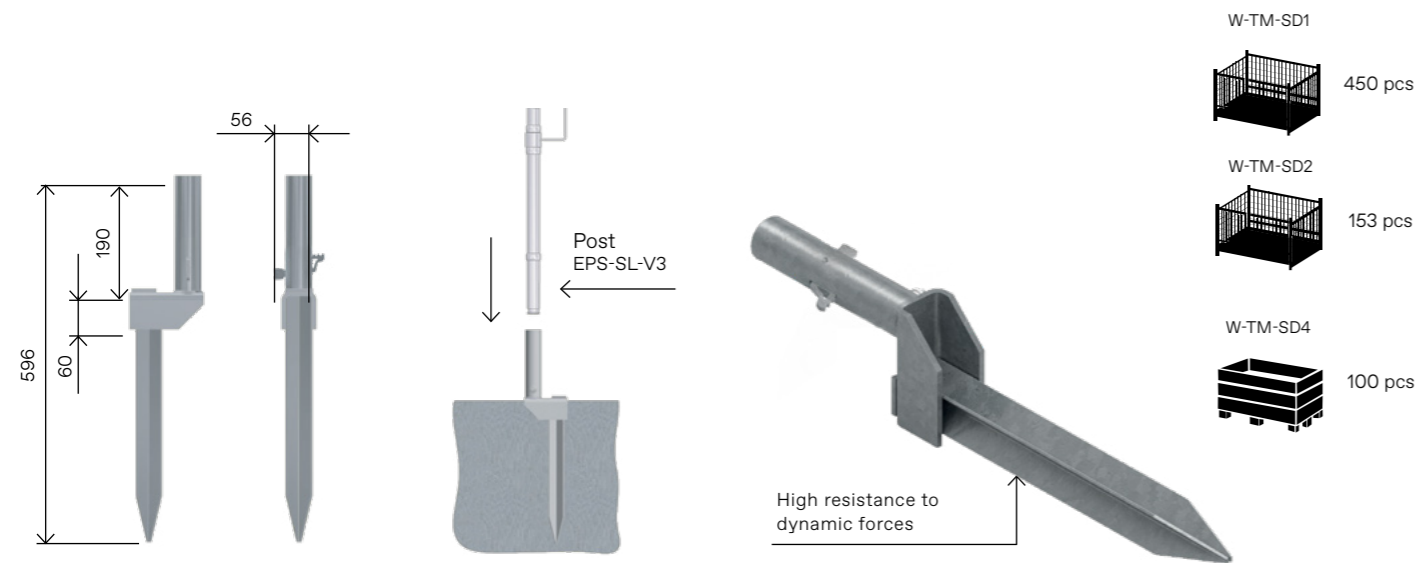
| | | |
|----------------|---|--|
| APPLICATION | Preparing the fastening socket for the system post. | |
| ASSEMBLY | Nail the flange of the element to the formwork horizontal surface, put in the tube, which length was previously adjusted to the thickness of the ceiling, and protect it with a cap. The holder is embedded to the formwork before concreting the structure, e.g. to the board, downstand beam or beams on horizontal surfaces. | |
| WEIGHT | 0,1 kg | |
| PRODUCT NUMBER | EPS-UZH-V2 | |

Vertical permanent holder resistant to most of the materials used in construction sector, e.g. concrete mixture, cream of lime, etc.



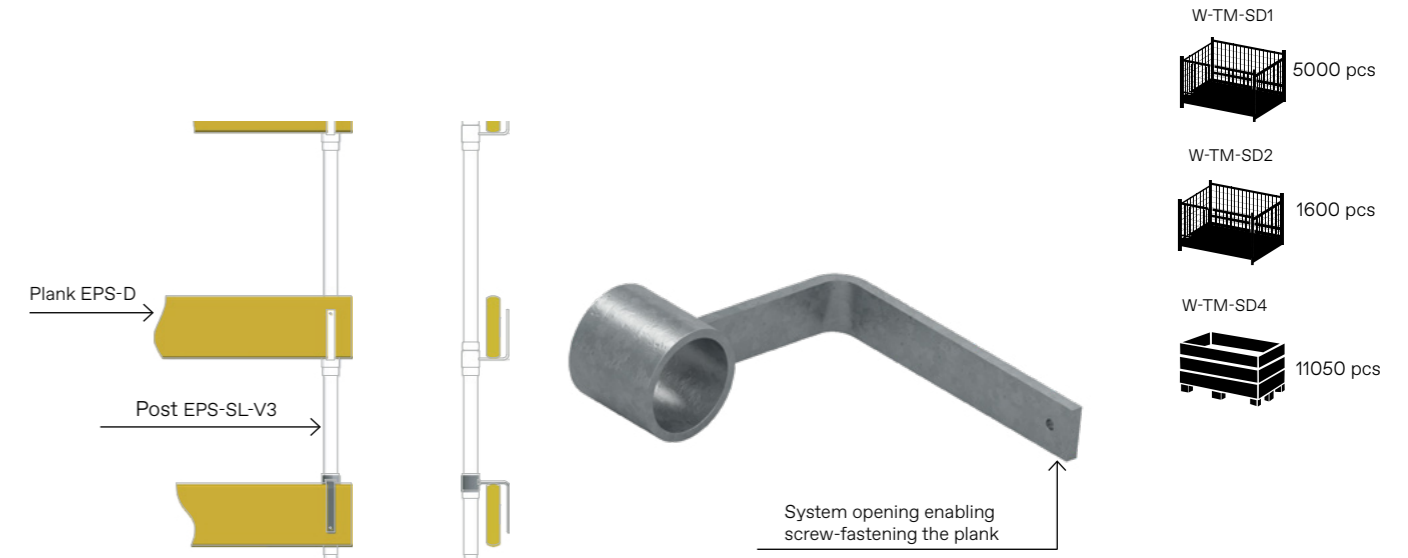
| | |
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| APPLICATION | Preparing the fastening socket for the clamping holder EPS-UZT-V2. |
| ASSEMBLY | Nail the holder to the clapboard using special openings in the flange and arranging it in such a way that the bar is oriented vertically. The holder is embedded within the reinforcement before concreting the structure, i.e. panel, binder, or beam on their vertical surfaces. |
| WEIGHT | 0,2 kg |
| PRODUCT NUMBER | EPS-UZV-V2 |

Drop-in holder designed to ensure high resistance to dynamic forces.



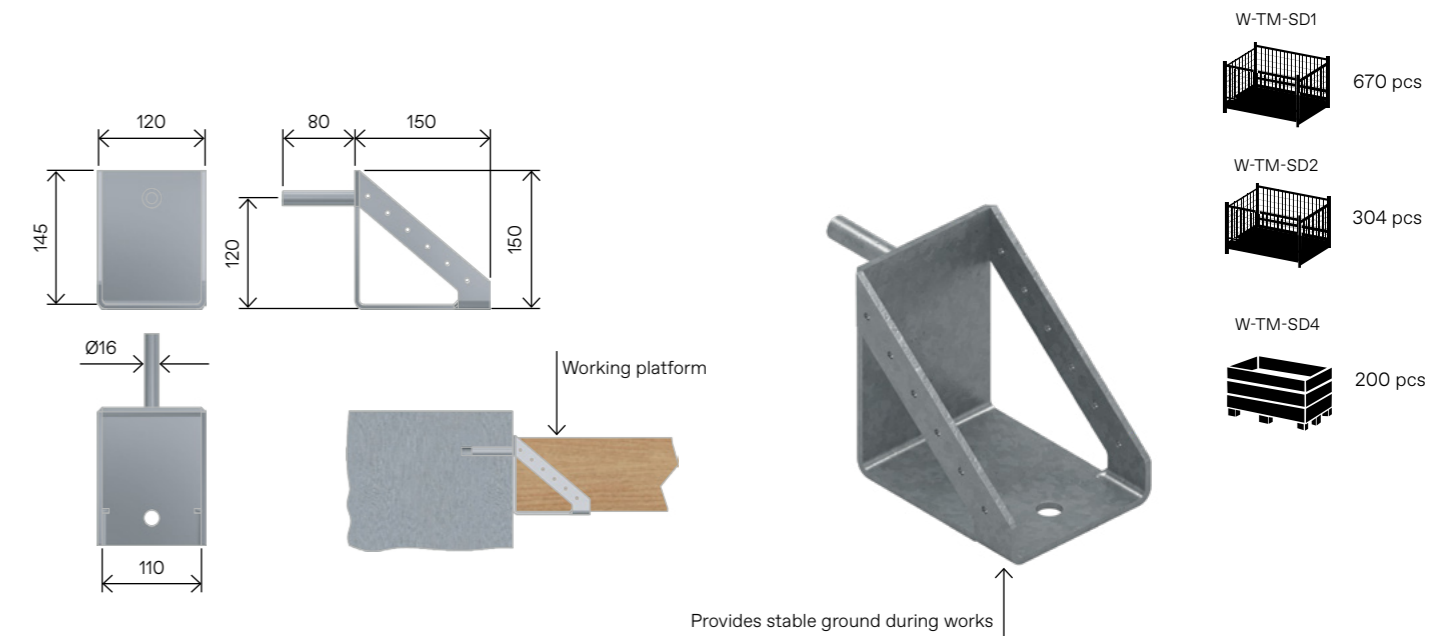
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| APPLICATION | Assembling the guard rail post in the ground near the edge of ground excavations. |
| ASSEMBLY | Hammer into the ground to a depth of approximately 400 mm using a mallet EPS-UW-P and check stability of the holder. |
| WEIGHT | 2,4 kg |
| PRODUCT NUMBER | EPS-UW-V3 |

Plank lower holder additional element used with wooden plank protection.



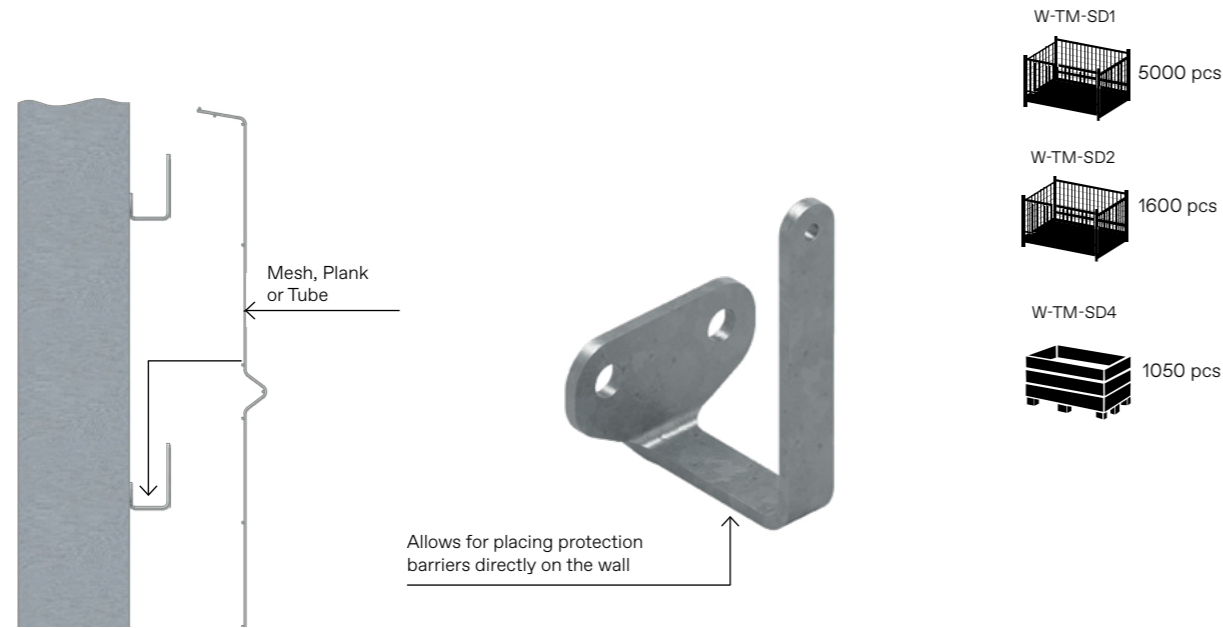
| | |
|----------------|---|
| APPLICATION | Protecting the plank serving as a toe board. |
| ASSEMBLY | Put the holder on the system post or in sleeves of other holders. |
| WEIGHT | 0,3 kg |
| PRODUCT NUMBER | EPS-UDS |

Working platform holder - the holders must always be used in sets of two assembled opposite each other.



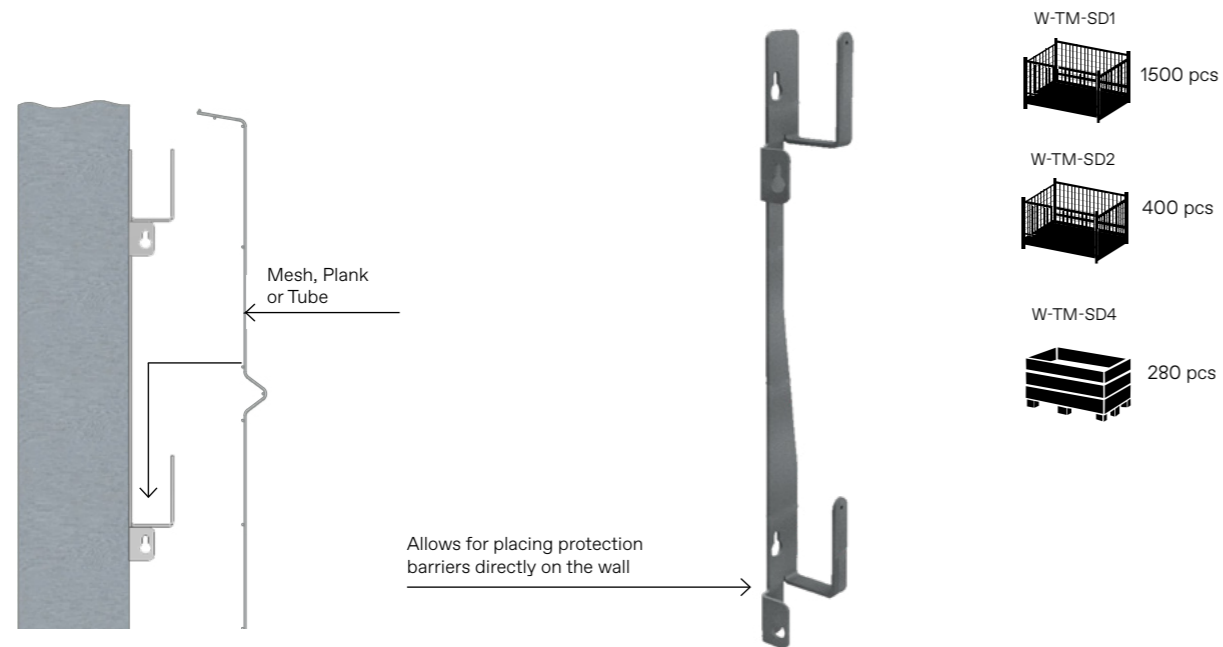
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|----------------|--|
| APPLICATION | Assembling working platforms in areas determined with two walls. e.g. lift shafts. |
| ASSEMBLY | Use a 16 mm drill bit to make 100 mm deep holes in opposite walls. Insert the holders in the openings, put the beam in holder sockets. The length of the beams must be no shorter than 5 mm of the length between holders. The holder is to be used with walls made of concrete or solid bricks. |
| WEIGHT | 1,8 kg |
| PRODUCT NUMBER | EPS-UPR |

Wall holder - additional element used for barrier protection.



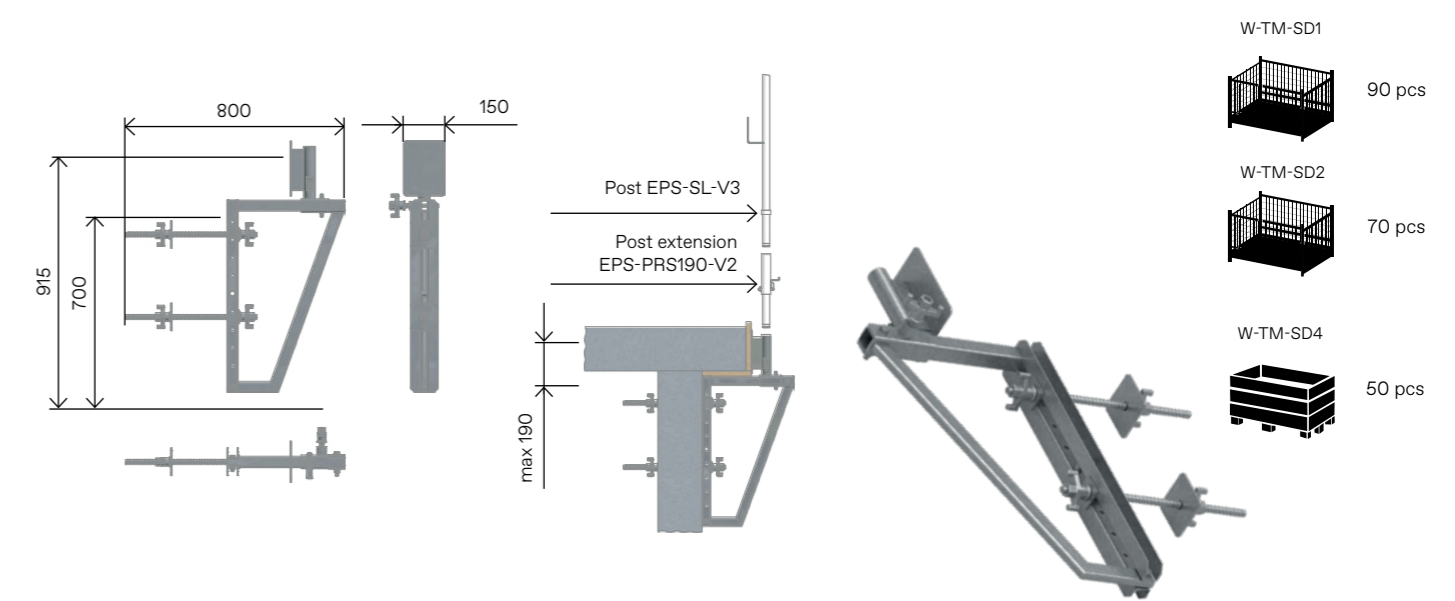
| | |
|----------------|---|
| APPLICATION | Placing barriers directly on walls in order to protect open spaces such as door and window openings. |
| ASSEMBLY | Fix the holder to a vertical surface with two anchors and M10x50 crews. We recommend Fischer EA II M10 anchors which should be fixed according to manufacturer's Instruction. |
| WEIGHT | 0,3 kg |
| PRODUCT NUMBER | EPS-US |

Double wall holder - additional element used for barrier protection.



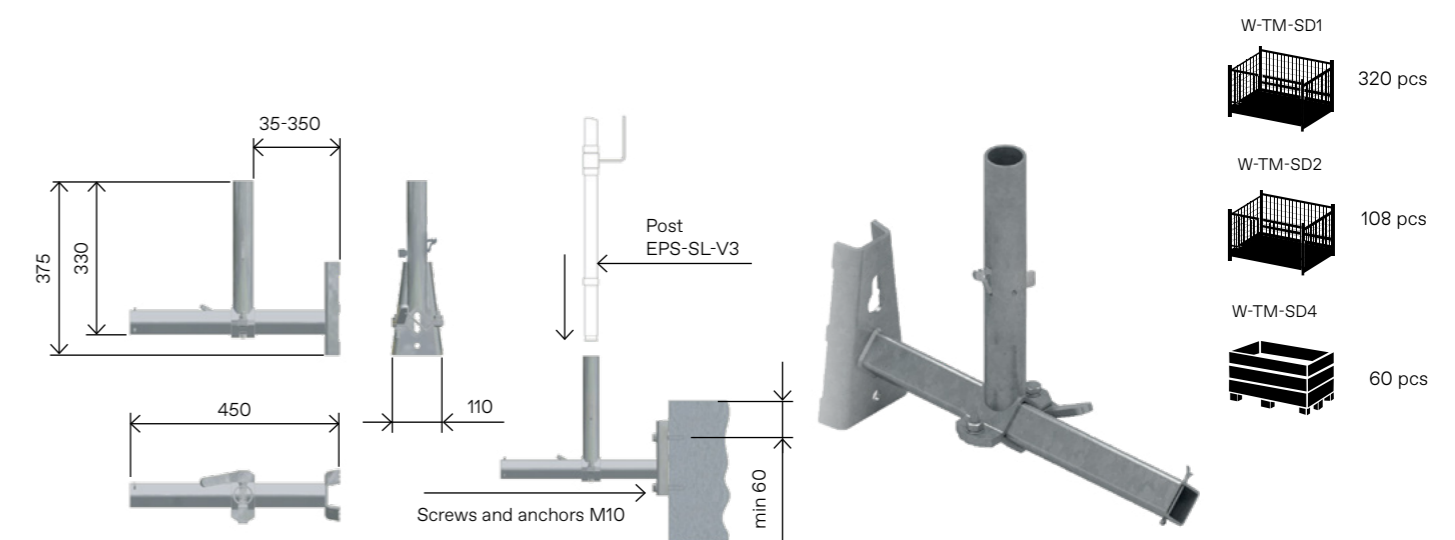
| | |
|----------------|--|
| APPLICATION | Installation of the guardrail directly on walls or parapets to secure open spaces, such as door and window openings, elevator shafts, etc. It is also possible to mount the support inside niches. |
| ASSEMBLY | The support must be fixed with two M10 anchors. The anchors must withstand a vertical load of 1500N. It is recommended to use the Fischer EA II M10x50 anchor. |
| WEIGHT | 1,7 kg |
| PRODUCT NUMBER | EPS-US2 |

Formwork girder - allows for formwork operations on edges that protrude beyond the outline of the wall.



| | |
|----------------|---|
| APPLICATION | Used to secure edges of the working area. |
| ASSEMBLY | The components of the formwork girder should be assembled on buildings supporting structure. If the construction is made of reinforced concrete it is allowed to assemble with chemical ancor or threaded bolt. |
| WEIGHT | 14,2 kg |
| PRODUCT NUMBER | EPS-USZ |

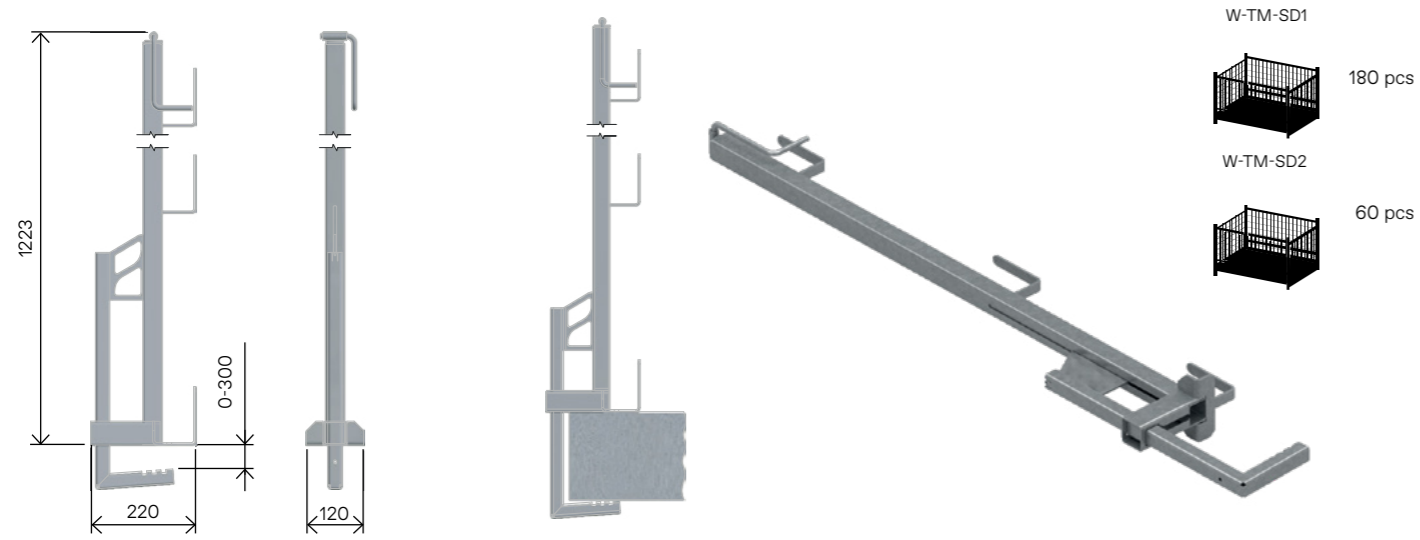
Facade holder has a simple design that facilitates assembly to steel and concrete structures. The holder allows to move the barrier away from the assembly area up to 350 mm.



| | |
|----------------|---|
| APPLICATION | The holder was designed to be assembled on steel and reinforced concrete structures. |
| ASSEMBLY | The holder can be assembled on vertical surfaces, under ledges, to such steel beams as I-beams or channels. |
| WEIGHT | 3,9 kg |
| PRODUCT NUMBER | EPS-USP |

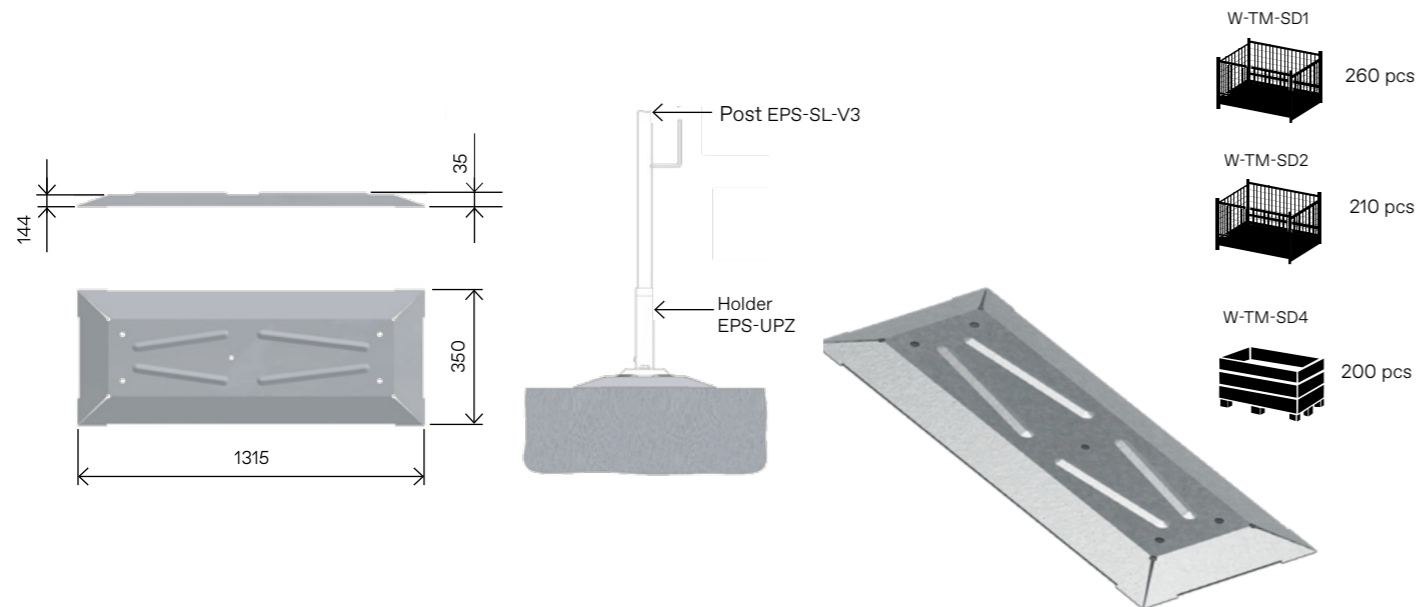
EPS System

Bracket clamp with post - thanks to the integrated construction it ensures better stability of the railing and reduces the time required for assembly. The bracket clamping is realised with the formwork tie ensuring fast regulation and secure assembly.



| | |
|----------------|---|
| APPLICATION | This post can replace two system elements, being a horizontal surface holder and system post in the same time. |
| ASSEMBLY | Loose the clamp by twisting the knob until you receive the required holder opening. Put the holder on the surface where it is to be assembled. Clamp the holder using the knob. |
| WEIGHT | 7,2 kg |
| PRODUCT NUMBER | EPS-UUS |

Steel foot - a base for the horizontal screw-fastened holder EPS-UPZ.



| | |
|----------------|---|
| APPLICATION | A foot with standard EPS components, i.e. horizontal holder EPS-UPZ and mesh panels, can be used to fence the construction site. These feet cannot be used as edge protection. |
| ASSEMBLY | Fasten the horizontal holder EPS-UPZ to the foot with M12x40 screws with nuts and pads. The foot with attached holder should be placed in the area that is supposed to be fenced. |
| WEIGHT | 4,8 kg |
| PRODUCT NUMBER | EPS-PU |

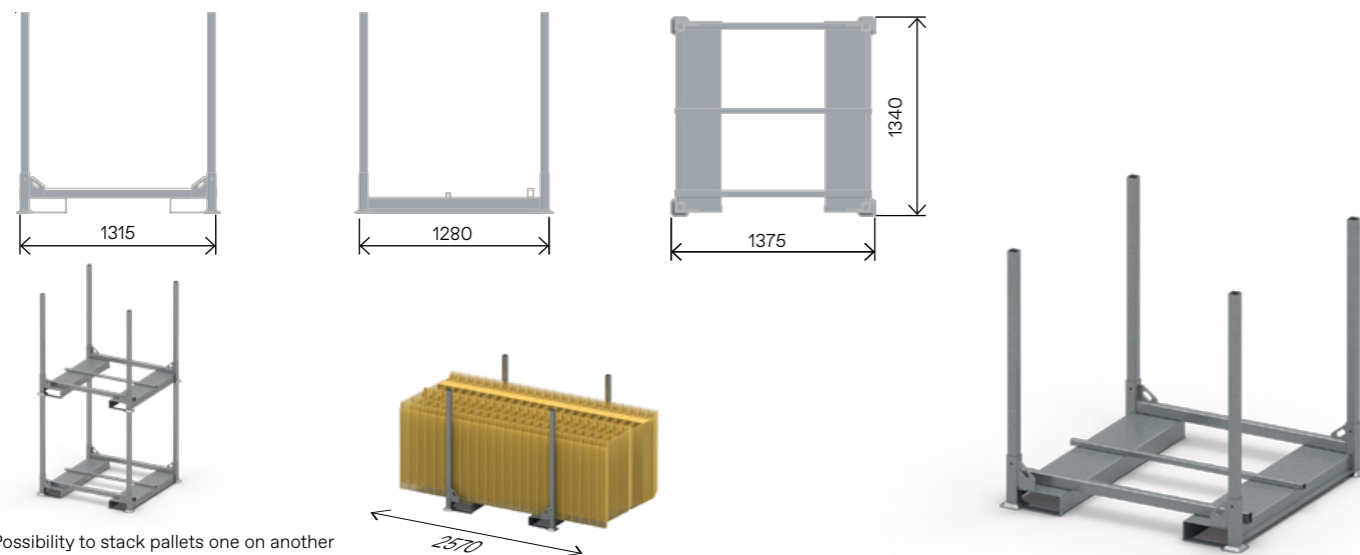


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| PRODUCT NUMBER | W-TM-SD1 | W-TM-SD2 | W-TM-SD4 |
|------------------------------|-------------------------------|------------------------------|------------------------------|
| WEIGHT | 253 kg (total weight 1550 kg) | 60 kg (total weight 1060 kg) | 83 kg (total weight 1085 kg) |
| BASKET CAPACITY (pcs) | | | |
| EPS-D | 180 | - | - |
| EPS-R500 | 760 | 500 | 500 |
| EPS-R700 | 480 | 350 | 350 |
| EPS-R1050 | 270 | 190 | 190 |
| EPS-R1750 | 160 | - | - |
| EPS-SL-V3 | 340 | 270 | 50 |
| EPS-PRS-V2 | 900 | 320 | 220 |
| EPS-PRS190-V2 | 1050 | 384 | 220 |
| EPS-UPZ-V2 | 1000 | 369 | 250 |
| EPS-UPN-V2 | 800 | 288 | 190 |
| EPS-UDZ-V2 | 380 | 172 | 110 |
| EPS-UG-V2 | 450 | 192 | 130 |
| EPS-UZT-V2 | 710 | 320 | 220 |
| EPS-UUN800-V2, EPS-UUN-V2 | 150 | 52 | 30 |
| EPS-UUN-V4 | 180 | 96 | 60 |
| EPS-UZH-V2 | 4500 | 1360 | 930 |
| EPS-UZV-V2 | 4500 | 1440 | 980 |
| EPS-UW-V3 | 450 | 153 | 100 |
| EPS-UDS | 5000 | 1600 | 1050 |
| EPS-UPR | 670 | 304 | 200 |
| EPS-US | 5000 | 1600 | 1050 |
| EPS-US-2 | 1500 | 400 | 280 |
| EPS-USZ | 90 | 70 | 50 |
| EPS-USP | 320 | 108 | 60 |
| EPS-UUS | 180 | 60 | - |
| EPS-PU | 260 | 210 | 200 |
| PRODUCT NUMBER | W-TM-SD3 | | |
| WEIGHT | 76 kg (total weight 1676 kg) | | |
| BASKET CAPACITY (pcs) | | | |
| EPS-PAN-ECO3 | 100 | | |
| EPS-PAN-I | 100 | | |
| EPS-D | 230 | | |
| EPS-R-1750 | 165 | | |

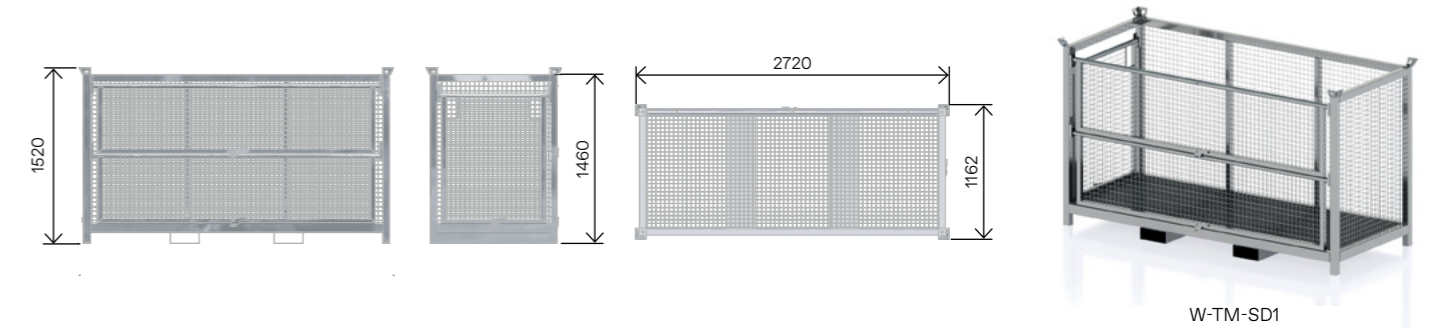
Transport basket W-TM-SD3 - designed to store mesh panels, planks and EPS-R1750 holder.



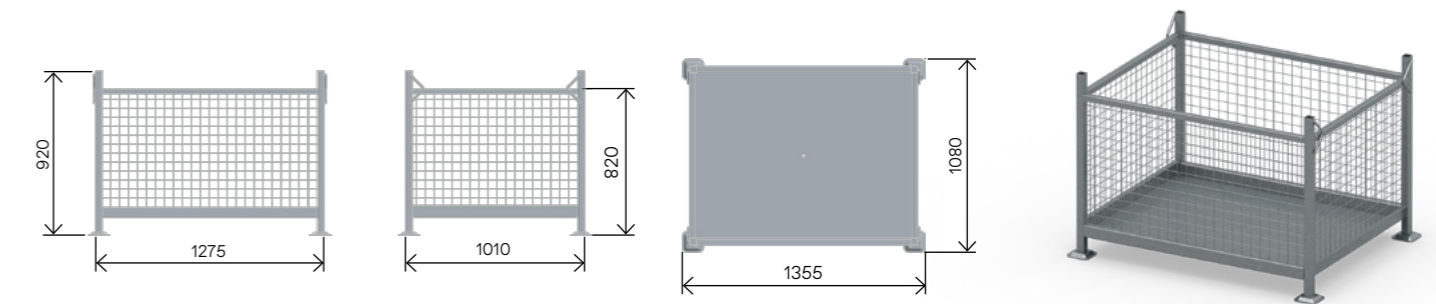
Possibility to stack pallets one on another

2570

Transport baskets W-TM-SD1, W-TM-SD2 - are equipped with upper grips in the corners (for crane transport, stacking) and at the bottom (transport with forklifts). The baskets are used to transport small EPS components, and are equipped with reinforced mesh walls. Designed according to the guideline for hoists.



W-TM-SD1

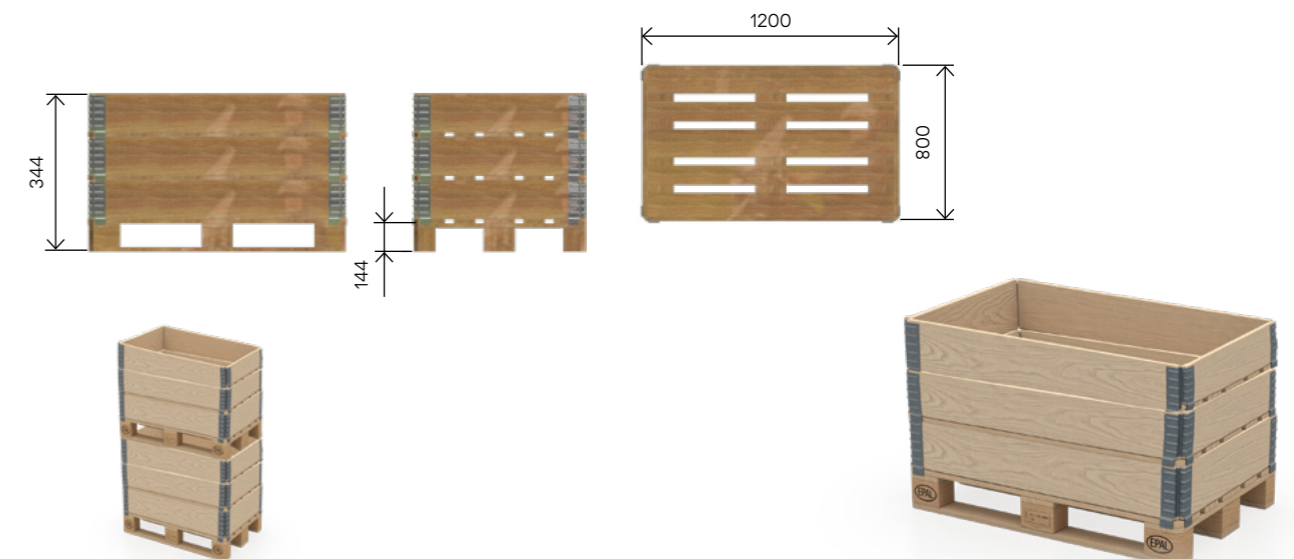


W-TM-SD2



Possibility to stack pallets one on another

Wooden box pallet W-TM-SD4 - a low cost possibility to store system elements. The pallet can be stacked. The most recommended option is with three cover plates.



Possibility to stack pallets one on another

Our realisations



The combination of Swedish technology and Polish entrepreneurship has allowed us to specialise in the design and production of solutions for the industrial and construction sectors.

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