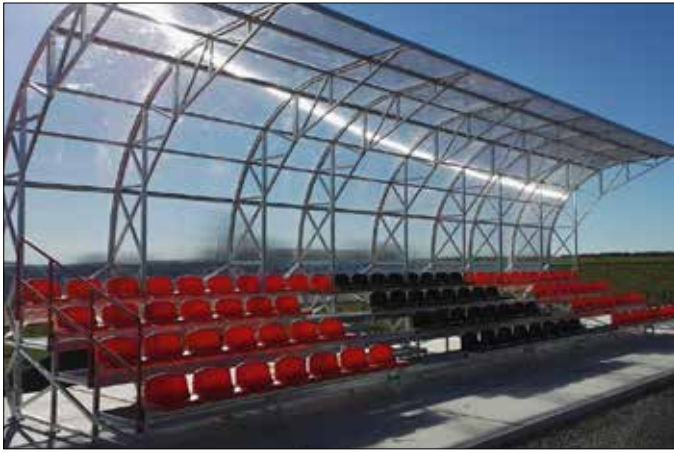


PESMENPOL[®]



**EQUIPMENT FOR SPORTS FACILITIES
SPORTS DEVICES
TRIBUNES**

Product catalog

Dear Customers,

PESMENPOL Sp. Z o.o. (Ltd.) is Poland's leading manufacturer of sports equipment and supplier of sports hall equipment. The company's offer includes the production of professional team game equipment, fixed and mobile equipment for sports halls, gymnasiums, outdoor sports fields and stadiums, and tribune productions. We focus on the development of sports and recreational infrastructure, as evidenced by the modernity and safety of facilities equipped with our devices.

All devices are implemented to mass production, based on our design solution, after endurance and operation tests. In addition, PESMENPOL has an Integrated Quality Management System ISO 9001, 14001, 18001 for design, production and assembly of sports equipment. The result of such activities is the excellent quality of the equipment, which ensures their popularity among domestic and foreign customers. Our products are present in over 50 countries. In addition to supplies to European countries, our products are exported to Russia, Kazakhstan, and Middle East countries, e.g. to Saudi Arabia, Iraq, Kuwait, Qatar. We have an extensive machine stock for the production of steel elements, including an innovative laser cutting machine for steel and CNC machining and a modern powder paint shop.

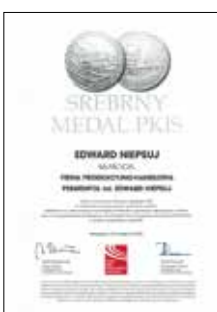
Apart from production activities, the company conducts professional assembly of sports equipment in halls and sports fields. With the latest assembly technology, qualified staff equip facilities and sports halls when they are completely finished, without the need for preparatory construction work. We have our own design office, equipped with latest design technologies, for equipment and production planning. The company carries out comprehensive customer service, advises on the selection of the optimal standard of sports equipment and the arrangement and layout of equipment in the facility.

We introduce you the latest catalog, presenting our offer of sports halls, gyms, football stadiums and outdoor sports fields equipment. In the current edition of the catalog, we have focused on the technical aspects of equipment installed in sports facilities. We follow new trends and technologies, resulting in continuous expansion of our product range. Investors and contractors of sports facilities, as well as schools, sports clubs and distributors are welcome to cooperate.

Best regards,

Edward Wiepszyj

President of the Board



Basketball

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SO4100 HYDROPLAY ACE

Portable basketball unit Hydroplay ACE, approved for international competitions (FIBA certificate Level 1), tested by the institute TUV Italia, meeting requirements and compliant with standards EN 1270. The system when delivered comes complete with the following elements:

- a set of protective pads for front frame and projection arm, 15 cm thick, covered with washable material, designed according to FIBA requirements;
- basketball backboards 180x105 cm, 12 mm thick, made of tempered glass, in compliance with standards EN 12150; backboards are equipped with covers of lower edges and red LED lights (possibility of connection with 24 sec. clocks);
- tilting basketball ring with the net attaching system without hooks; nylon basketball net;
- rear plates for anchoring to the floor.

Hydraulic, electric control allows to adjust the height of the entire structure for professional basketball or mini-basketball play.

"REST" position (folded unit) facilitates the transport of the structure and its storage. Approximate weight of complete system: 1300 kg.

1-80



SO4110 EASYPLAY OFFICIAL

Mobile basketball unit with dynamic counterbalance. Painted steel structure, hinges and joints fitted on antifriction bearings. Adjustable height and position of backboards. "PLAY" position (basketball structure unfolded) and "REST" position (basketball structure folded) is activated with the use of innovative, patented counterbalance system, which completely replaces a traditional electromechanical, electrohydraulic and hydraulically manual system. The front and rear cart internally integrated on the base of the unit, which is automatically lifted or lowered when the system folds or unfolds the structure, without the need to control carts. The front protective pads are covered with synthetic washable material 15 cm thick.

The set includes:

- 2 safety glass backboards 180x105 cm, 12 mm thick, with covers of lower edges;
- 2 tilting basketball rings with nets.

The system is equipped with rear plates for anchoring to the floor.

The system complies with FIBA standards.

1-70





S04106 HYDROPLAY OFFICIAL

Oleo-dynamic mobile basketball backstops. Varnished steel structure, hinges and joints fitted on bearings (pivotal or antifriction positions). Adjustable height and position of boards. "PLAY" position (basketball structure unfolded) and "REST" position (basketball structure folded) is activated with the use of oleo-dynamic delivery pump panel. Steam regulator ensures the increase or decrease of the rate of lifting or lowering the board. The valve permanently fitted on the cylinder guarantees the blockage of movement in the desired direction during irregular and unsmooth operation, caused by clogged or cracked wires. Mobile system consists of two mobile and two stationary wheels, which are pulled out or retracted when basketball unit is lifted or lowered. Shield is covered with synthetic and washable material 15 cm thick. Safety glass boards equipped with covers of lower edges. Mobile basketball ring with the net made of reinforced cotton. Approximate weight of a complete system: 1050 kg. The system when delivered comes complete with the following elements: two tempered safety glass boards 180x105 cm with the thickness of 12 mm, with covers of lower edges; two basketball rings with nets. The system contains rear plates for anchoring to the floor. Projection: 330 cm. Required length for proper setting: 425 cm. Dimensions after folding: 410x185x170 cm. The system complies with FIBA standards.

1-74



Portable basketball backstop NAJA 325

1-79

Portable basketball backstop NAJA 325, projection 3,25 m, hydraulically folding, with possibility of height adjustment for mini-basketball play (h = 260 cm). Equipped with safety glass backboard 105x180 cm, tilting ring with a tournament net, structure and basketball backboard protecting pads. FIBA approved (Level 1). The structure equipped with a system to ensure safe floor load - Dynamic Base Frame (DBF) - movable base frame is lowered during the basket lift, and loads the floor on the large area. Dimensions after folding: H= 186 cm, S= 190 cm. Steel ballast load in a form of bars. The weight of a whole structure: 950 kg.

1-79-2

Portable basketball backstop NAJA 325 MULTIEXTEND

Portable basketball backstop NAJA 325 MULTIEXTEND, projection 3,25 m, hydraulically folding, with possibility of height adjustment for mini basketball play (h = 260 cm). Equipped with safety glass backboard 105x180 cm, tilting ring with a tournament net, structure and basketball backboard protecting pads. FIBA approved (Level 1). The structure equipped with a system to ensure safe floor load - Dynamic Base Frame (DBF) - movable base frame is lowered during the basket lift, and loads the floor on the large area. MULTIEXTEND system allows to change projection in the range of 325 - 225 cm. Dimensions after folding: H= 186 cm, S= 190 cm. Steel ballast load in a form of bars. The weight of a whole structure: 1000 kg.



Portable backstop NAJA 225

Designed according to the world standards, produced using the highest quality materials. Folded hydraulically, manually or with electric motor support.

Portable basketball system with single arm, projection 225 cm.

Mobile system consists of two mobile and two stationary wheels, which are pulled out or retracted when basketball unit is lifted or lowered.

The system contains rear plates for anchoring to the floor.

Protective pads are covered with washable material 10 cm thick.

Total weight: 750 kg.

Safety glass backboards equipped with covers of lower edges.

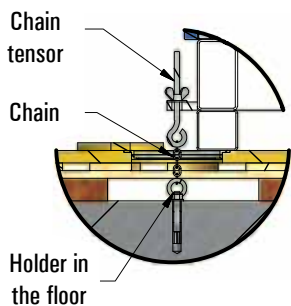
Mobile basketball ring with the net made of reinforced cotton.

The system can be used to play mini-basketball.

1-77 Hydraulically manually folded

1-78 Hydraulically folded with electric motor support

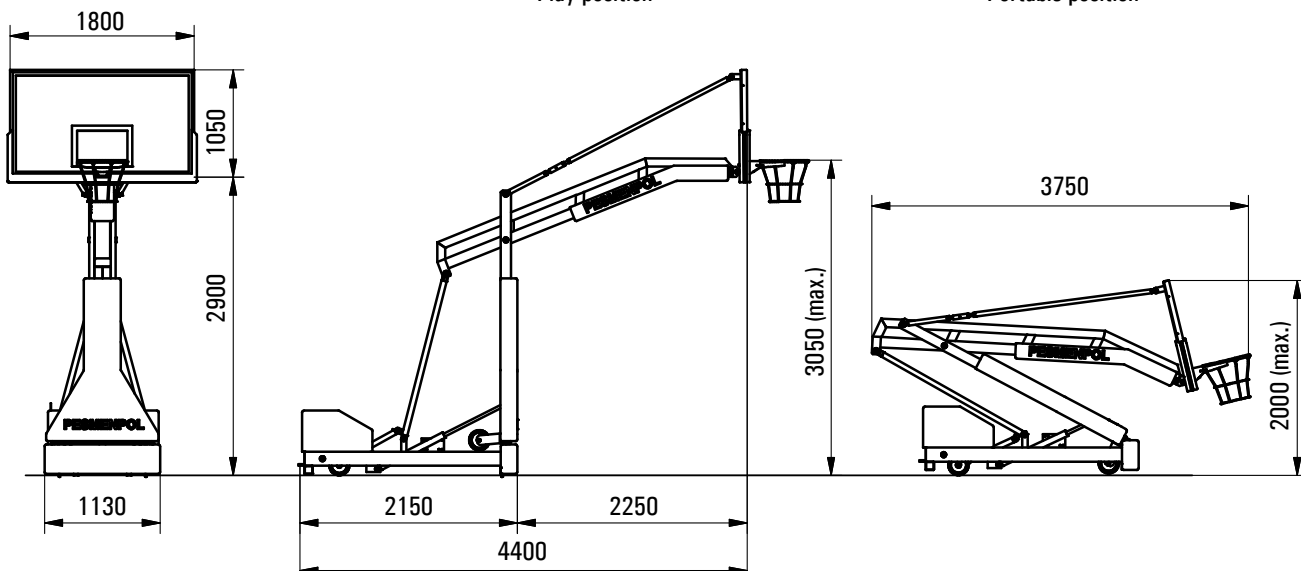
Assembly of the holder to the floor



Play position



Portable position



Portable basketball backstop NAJA MINI 125

Portable basketball backstop with projection 125 cm. Intended for mounting for basketball backboards with dimensions 90x120 cm or 105x180 cm; adjustable height 200 – 260 - 305 cm (using a screw mechanism). Equipped with safety protection pads and rotating wheels. Total weight: 420 kg.

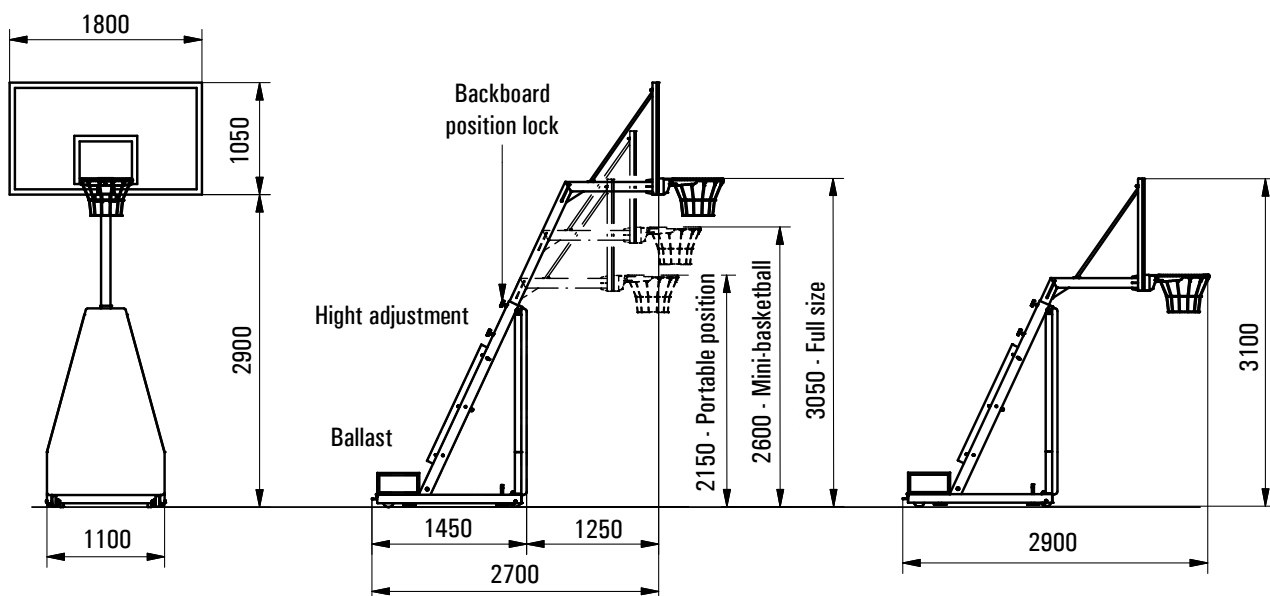
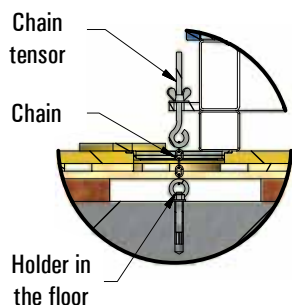
To provide safety in use, the set is equipped with counterbalance in a form of steel case weights; all further fastened to the floor by masked holder. Structure mainly used as the primary baskets in small halls and as the side baskets in large sports halls, where mounting the backboards to the wall or to construction beams is difficult. Projection arm designed for mounting all types of backboards (made of tempered or acrylic glass and epoxy board); the set can be equipped with various types of basketball rings: tilting, stationary (strengthened or standard), or popular.

1-65 Portable basketball backstop with projection 125 cm

1-65-1 Portable basketball backstop with projection 125 cm.
Electric height adjustment system



Assembly of the holder to the floor





Suspended basketball structure with an electric drive

Suspended basketball structure with an electric drive is mounted to the hall's ceiling structure and it is made of closed steel profiles, which ensures complete stability of individual elements.

The structure, fixing the backboard, is raised and lowered using steel wires, wound onto the drum of an electric motor with a voltage 230V, P=410W. After lowering, the backboard is laid in a vertical position (the height of the ring from the ground – 3,05 m).

This structure is intended for use in sports halls of a length exceeding 36 m and with the lower ceiling surface up to 10,5 m high.

The backboard can be folded forward or to the back, depending on the construction of the hall.

Each structure and fixing system are customize, considering parameters of the particular sports hall.

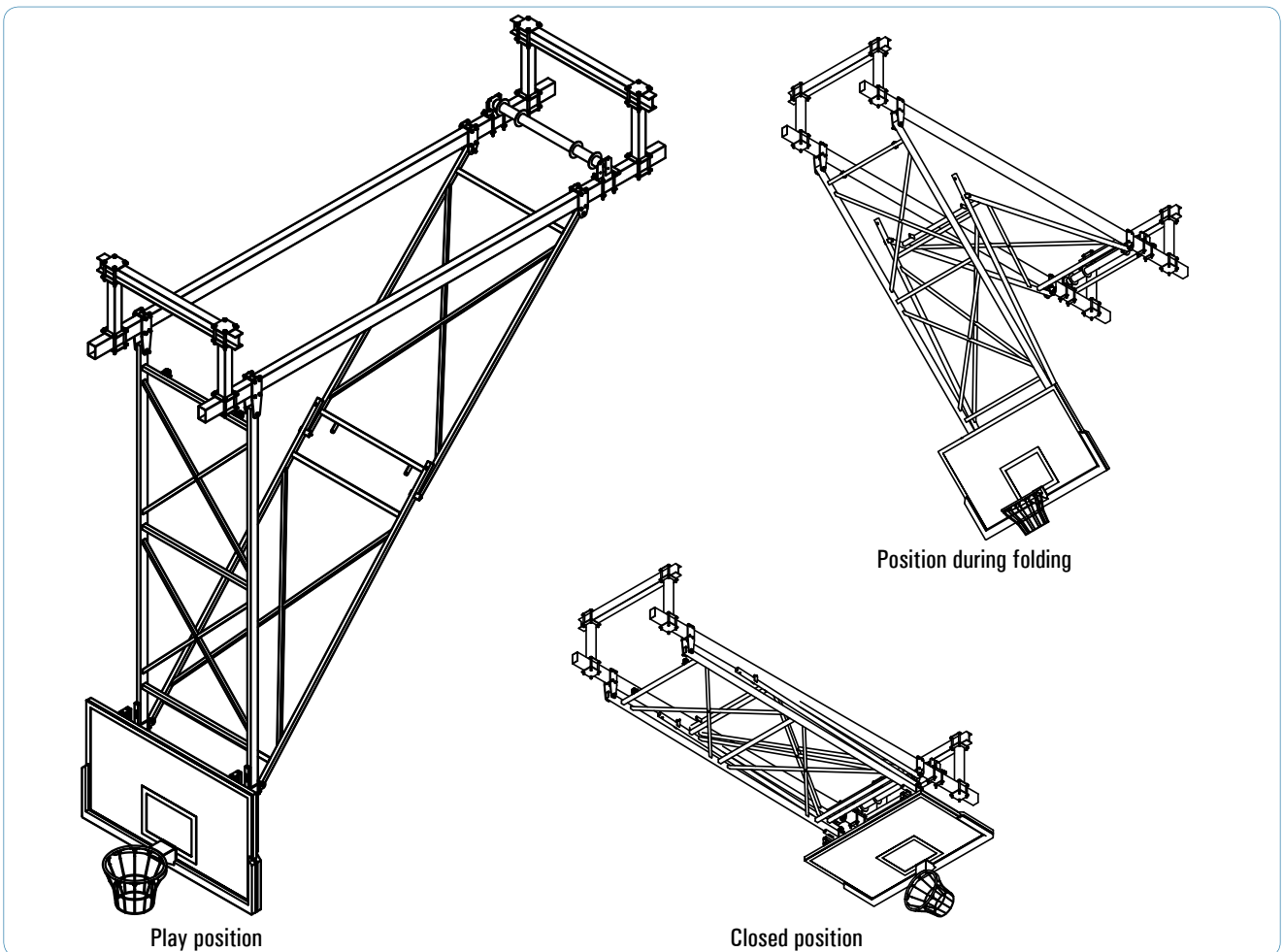
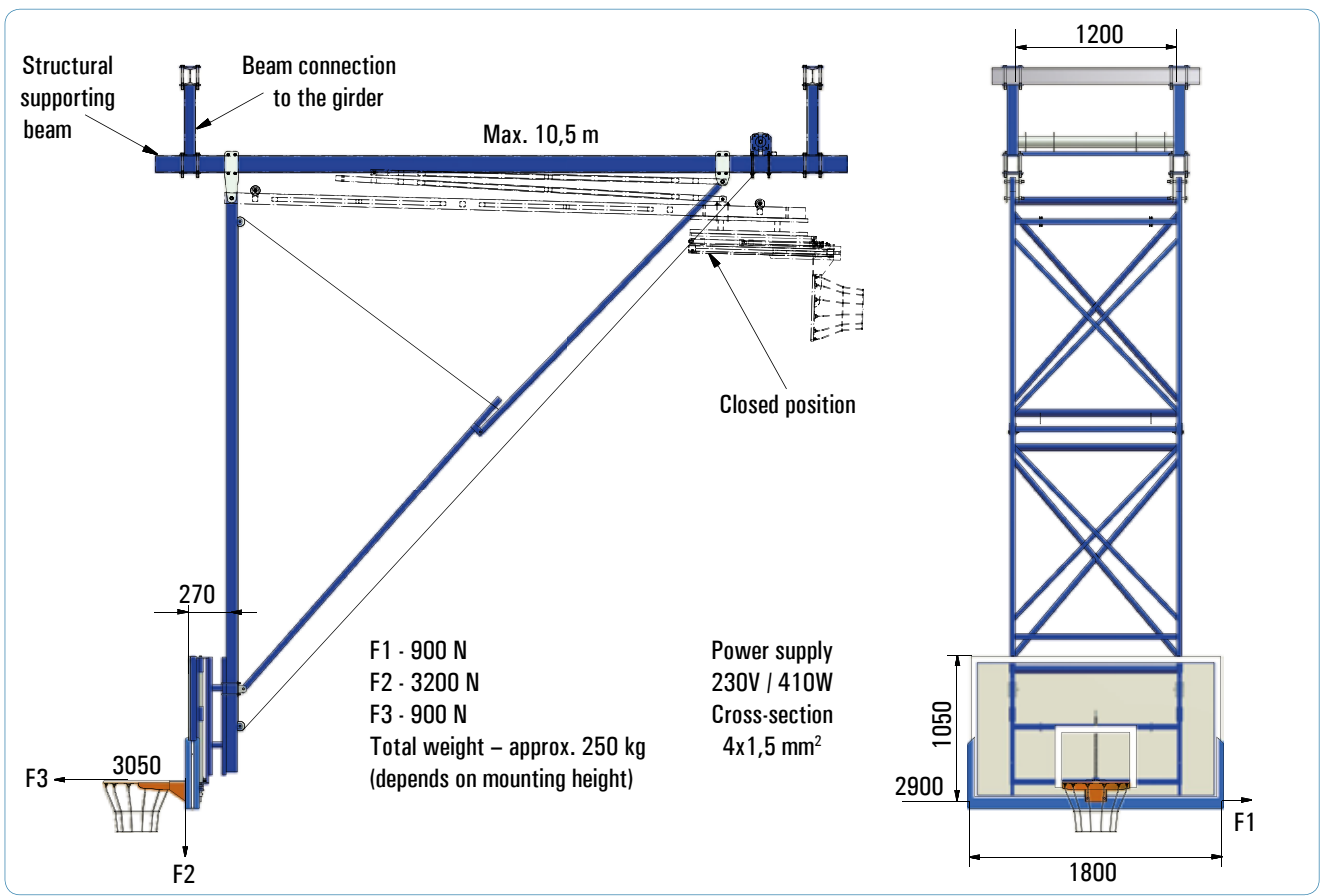
Motor control is performed by the switch, placed in the control cassette, or by the wireless remote.

Total weight of the structure with the backboard is 250 - 350 kg.

1-25

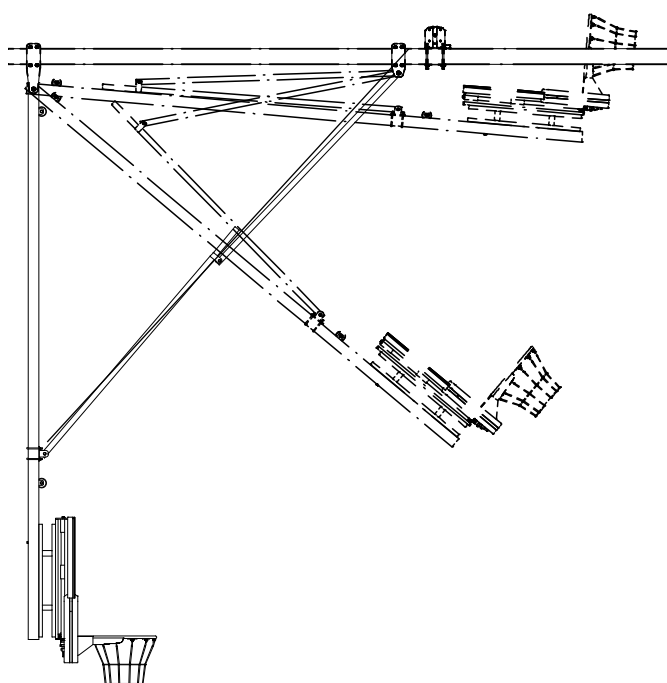


COMPLIANCE WITH
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PN-EN STANDARDS





Forward folding structure – simulation



Examples of fixings of various types of structures in sports facilities



Forward folding structure



Back folding structure



Structure fastened to the sloping roof



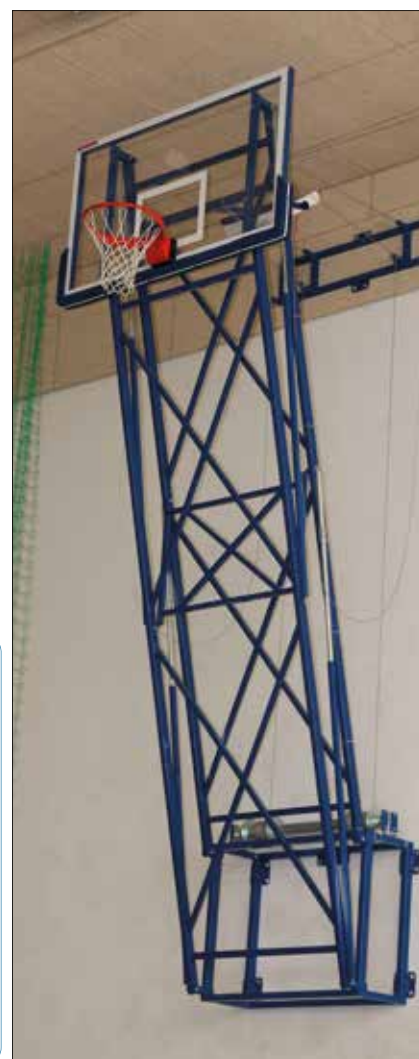
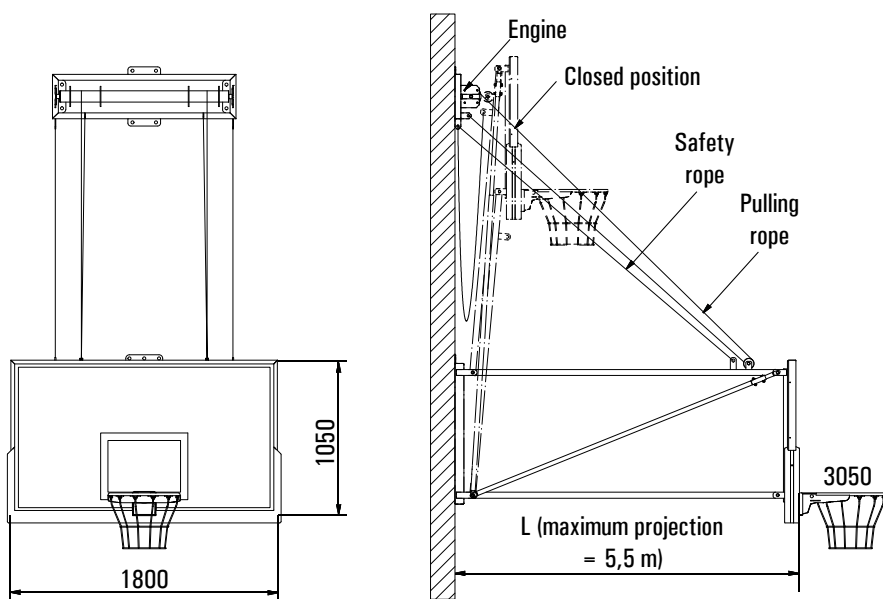
Structure mounted between girders



Mounting to a wooden girder



Mounting to a steel girder



Vertically lifted basketball structure with an electric drive

The structure allows to fold the basketball backboard vertically up towards the wall. The drive, lifting the structure, is electric engine 220V, P=410W. The structure, made of powder coated closed steel profiles, is mounted to the supporting structure of the building. Used construction materials provide safety and comfort, as well as stability of fixed backboards with the rings. The stability is achieved by installing additional stays. Structure is intended for mounting all types of basketball backboards, with the distance of the face of the backboard from the wall up to 550 cm.

1-24-1 Structure with projection up to 200 cm **1-24-2** Structure with projection 200 - 400 cm

1-24-3 Structure with projection 400 - 550 cm



Tilting basketball structure

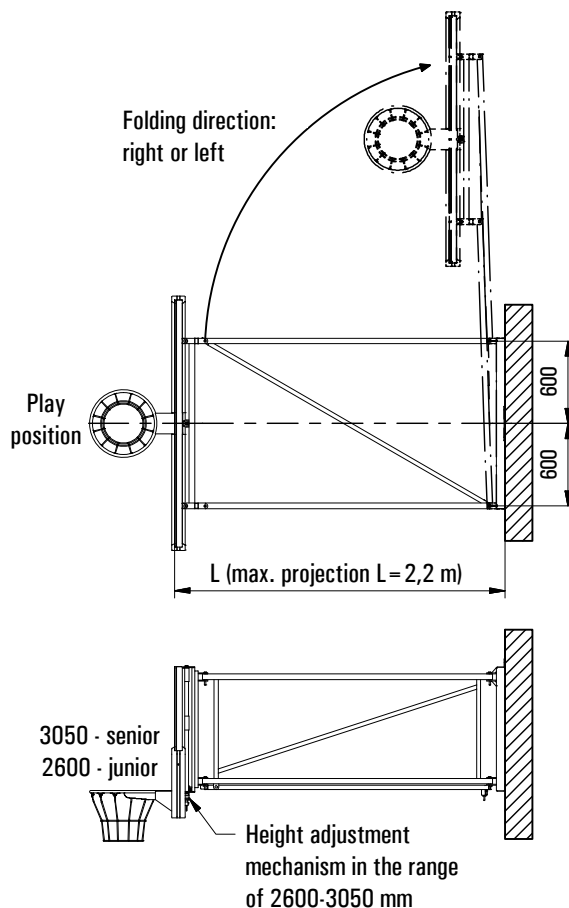
The structure allows to fold the basketball backboard horizontally towards the wall by manual pulling the lock, using a special handle. Made of powder coated closed steel profiles, mounted to the supporting structure of the building. Used construction materials provide safety and comfort, as well as stability of fixed backboards with the rings. Structure is intended for mounting all types of backboards, with the distance of the face of the backboard from the wall 100 - 220 cm.

1-22-1 Structure with projection 100 - 160 cm

1-22-2 Structure with projection 170 - 220 cm



Option of structure with oblique frame



Stationary basketball structure

The structure is made of powder coated steel profiles, mounted to the supporting structure of the building. Used construction materials provide safety and comfort, as well as stability of fixed backboards with the rings.

Structure is intended for mounting all types of basketball backboards, with the distance of the face of the backboard from the wall up to 120 cm.

1-21





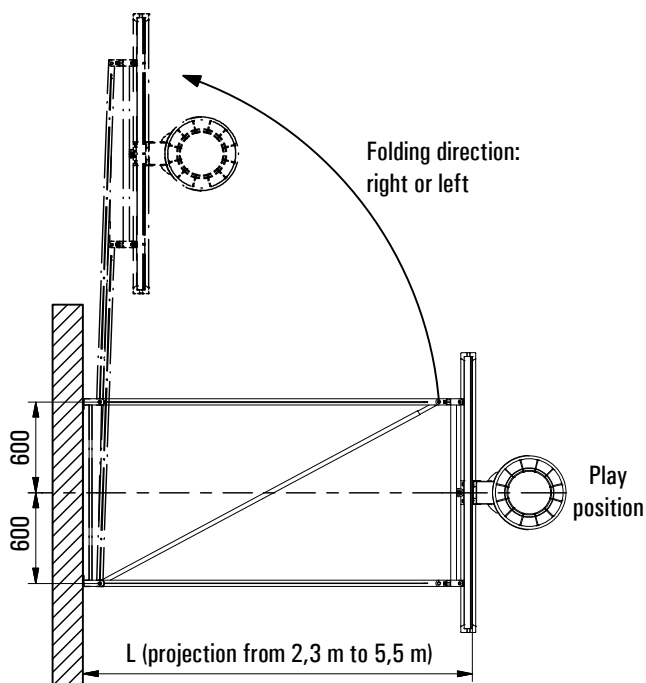
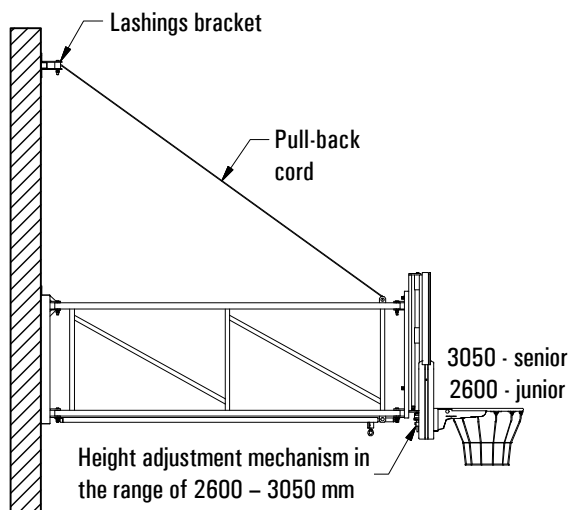
Tilting basketball structure with lashings, side wall foldable

Basketball tilting structure with lashings allows to fold the basketball backboard horizontally towards the wall by manual pulling the lock, using a special handle. Mounted structure is additionally secured by installation of lashings.

The structure, made of powder coated closed steel profiles, is mounted to the supporting structure of the building. Used construction materials provide safety and comfort, as well as stability of fixed backboards with the rings.

Structure is intended for mounting all types of basketball backboards, with the distance of the face of the backboard from the wall 230 - 550 cm.

Also produced in a version, where a part of the structure is permanently fixed and the part is folded towards the wall. Each time the length of the construction is customized, after adjusting to the parameters of the sports hall.



1-23-1 Structure with projection 230 - 330 cm

1-23-2 Structure with projection 340 - 440 cm

1-23-3 Structure with projection 450 - 550 cm



The structure with permanent part, used in case of an obstacle, which makes impossible to fold the whole structure (e.g. protective net)



Structure mounted to a wooden girder



Special structure, mounted to the structure of the roof



Structure oblique up, mounted to the balcony



Structure mounted between reinforced concrete pillars



Structure mounted to the steel pillar



Structure mounted to the reinforced concrete pillar

Portable basketball set

Intended for use on outdoor or indoor training courts. Requires the use of ballast (hardened surface) or fixing pins (soil). Equipped with epoxy backboard type MiniStreetBall 90x77 cm, popular basketball ring and basketball net. Adjustable height of the base.

1-27



Basketball set installed on gymnastic wall bars

Basketball set installed on gymnastic wall bars, designed for trainings in sports halls. The set consists of the backboard and basketball ring with the net. Equipped with steel handle for suspension on gymnastic wall bars rungs. The structure of the fixing handles guarantees safe and stable suspension of the backboard. This set is very easy to assemble and convenient to store.

1-1000

Basketball set installed on gymnastic wall bars, backboard 90x120 cm

1-1001

Basketball set installed on gymnastic wall bars, backboard MiniStreetBall 90x77 cm



Wall-mounted training basketball set

Compact wall-mounted basketball set with backboard 90x120 cm (without the metal frame), popular basketball ring and basketball net. Intended for installation on the transverse training courts in sports halls. It can also be used as the main basket in small gyms or as a home training kit. The structure is made of steel profiles, powder coated. The ring is mounted directly to the steel frame, therefore backboard's plate is not subjected to damage as a result of loads occurring on the basket. Version for outdoor use, with hot-dip galvanized structure, available on special request.



1-103-K

Wall-mounted training basketball set with height adjustment, projection: 60 cm



1-104-K

Wall-mounted training basketball set, projection: 70 cm

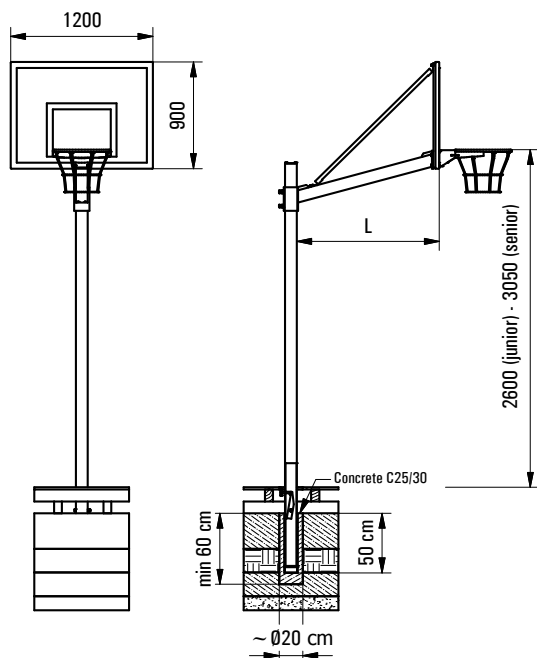
Single- or double post basketball structures, intended for indoor use

Single- or double-post basketball structures for backboards with dimensions 90x120 and 105x180 cm. The structure is made of closed square steel profile 100x100 mm, protected against corrosion by powder coating.

This design allows to set the basket at any height; an arm, fixing the backboard, available in lengths: 1,2 m, 1,4 m and 1,6 m. The structure is produced in two versions: permanently mounted or mounted in a sleeve (demountable). Structure is intended for mounting epoxy or acrylic basketball backboards, and all types of basketball rings. It is possible to install a height adjustment mechanism, which allows smooth adjustment of the height of the backboard, without the need to adjust the projection arm.

1-26

1-29



Single-post basketball structure – type: anti-vandal

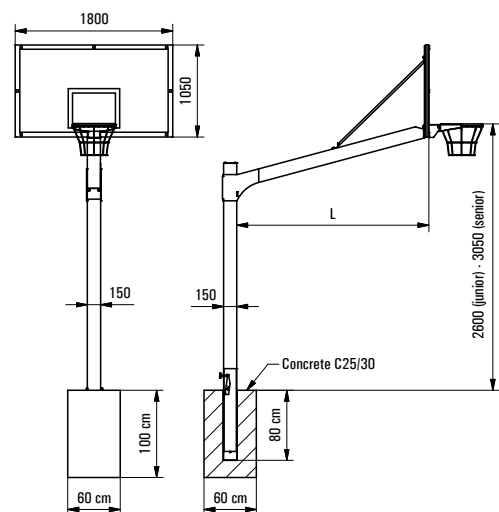
Durable and resistant to damage single-post basketball structure for backboard with dimensions 105x180 cm is made of closed square steel profile 150x150 mm, protected against corrosion by hot dip galvanizing.

This design allows to set the basket at any height; an arm, fixing the backboard, available in four lengths: 1,2 m, 1,4 m, 1,6 m and 2,2 m.

The structure, intended for outdoor use (playgrounds, school courts), is produced in two versions: permanently mounted or mounted in a sleeve (demountable). Structure is intended for mounting epoxy backboards or steel lattice backboards, and all types of galvanized basketball rings.

It is possible to install a height adjustment mechanism, which allows smooth adjustment of the height of the backboard, without the need to adjust the projection arm.

1-29





Single-post basketball structure

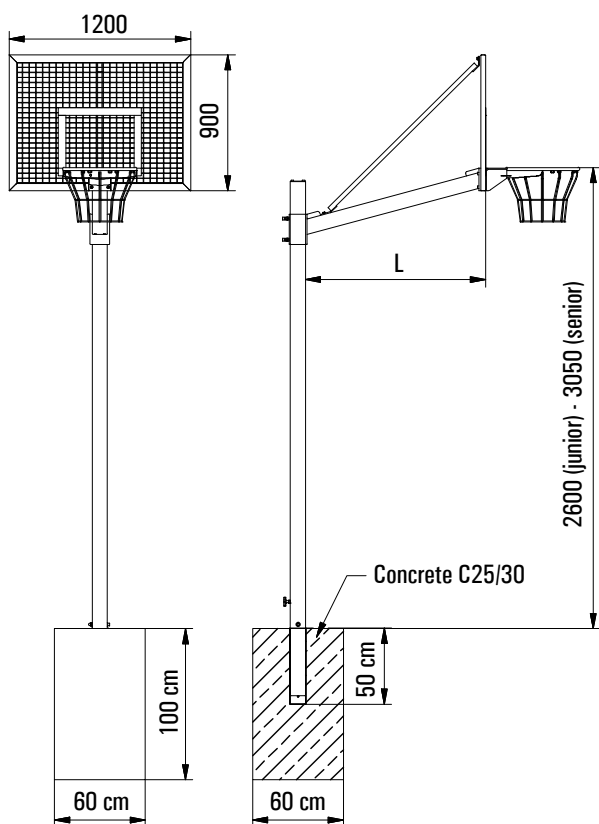
Single-post basketball structure for backboard with dimensions 90x120 cm or 105x180 cm is made of closed square steel profile 100x100 mm, protected against corrosion by hot dip galvanizing.

This design allows to set the basket at any height; an arm, fixing the backboard, available in three lengths: 1,2 m, 1,4 m and 1,6 m. The structure, intended for outdoor use (playgrounds, school courts), is produced in two versions: permanently mounted or mounted in a sleeve (demountable).

Structure is intended for mounting epoxy backboards or steel lattice backboards, and all types of galvanized basketball rings. It is possible to install a height adjustment mechanism, which allows smooth adjustment of the height of the backboard, without the need to adjust the projection arm.

1-26

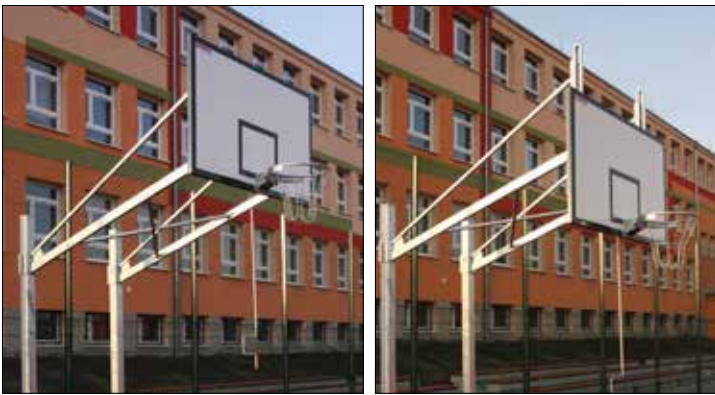
1-29



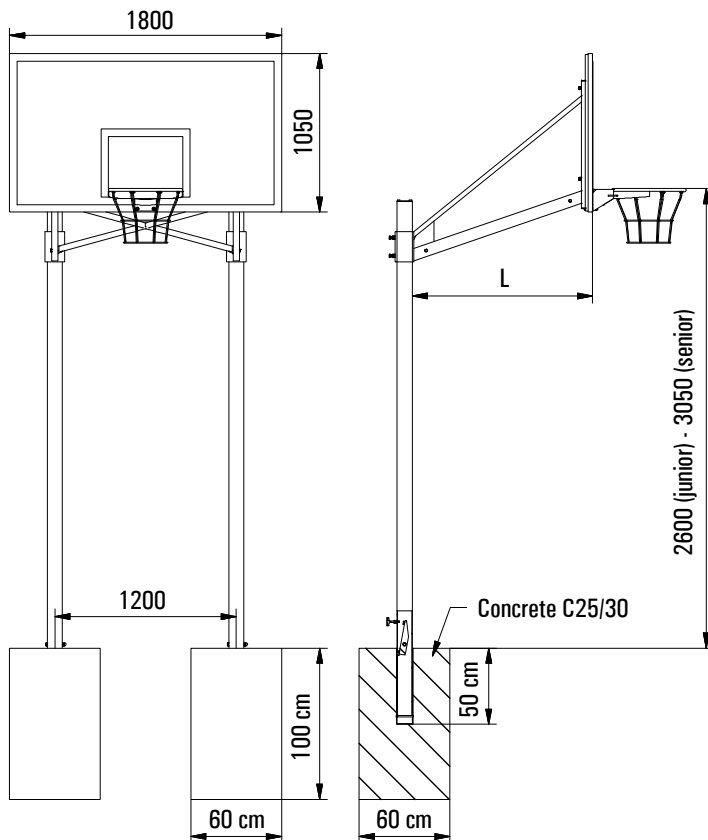
Epoxy basketball backboard with height adjustment mechanism



Steel basketball backboard (lattice, VEMA type)



Double-post basketball structure with height adjustment mechanism



Double-post basketball structure

Double-post basketball structure for backboard with dimensions 105x180 cm is made of closed square steel profile 100x100 mm, protected against corrosion by hot dip galvanizing.

This design allows to set the basket at any height; an arm, fixing the backboard, available in four lengths: 1,2 m, 1,4 m, 1,6 m and 2,2 m.

The structure, intended for outdoor use (playgrounds, school courts), is produced in two versions: permanently mounted or mounted in a sleeve (demountable).

Structure is intended for mounting epoxy backboards or steel lattice backboards, and all types of galvanized basketball rings. It is possible to install a height adjustment mechanism, which allows smooth adjustment of the height of the backboard, without the need to adjust the projection arm.

1-28



Steel basketball backboard (lattice, VEMA type)



Professional basketball backboard 180x105 cm, tempered glass 12 mm thick

Professional basketball backboard, dimensions 180x105 cm, tempered glass 12 mm thick, mounted on metal frame, no-hole system of mounting glass plate to the main frame.

Fixing the ring to the backboard's structure prevents the transmission of loads from the ring to the backboard. For safety reasons, it is necessary to mount the protective pads for lower edge of the tempered glass backboard.

Comply with FIBA regulations.

1-10 Basketball backboard 105x180 cm, tempered glass 12 mm thick



Basketball backboards 90x120 and 105x180 cm, acrylic glass, mounted on metal frame

Basketball backboards, dimensions 90x120 cm and 105x180 cm, transparent acrylic glass, installed on metal frame.

Fixing the ring to the backboard's structure prevents the transmission of loads from the ring to the backboard.

For safety reasons, it is necessary to mount the protective pads for lower edge of the tempered glass backboard.

1-11 Backboard 105x180 cm, acrylic glass 15 mm thick

1-12 Backboard 105x180 cm, acrylic glass 10 mm thick

1-14 Backboard 90x120 cm, acrylic glass 10 mm thick



Basketball backboards 90x120 and 105x180 cm, non-transparent epoxy board, installed on metal frame

Basketball backboards, dimensions 90x120 cm and 105x180 cm, non-transparent epoxy board 18 mm thick, installed on metal frame.

Fixing the ring to the backboard frame prevents the transmission of loads from the ring to the backboard.

1-15 Epoxy backboard 90x120 cm

1-13 Epoxy backboard 105x180 cm





Basketball backboards 90x120 cm and 105x180 cm, epoxy, on hot dip galvanized metal frame

Basketball backboards with dimensions 90x120 cm and 105x180 cm, non-transparent epoxy board 18 mm thick, installed on metal frame, protected against corrosion by hot dip galvanizing.

Fixing the ring to the backboard frame prevents the transmission of loads from the ring to the backboard.

1-83 Training epoxy backboard 90x120 cm, 18 mm thick

1-84 Professional epoxy backboard 105x180 cm, 18 mm thick



Basketball backboards 90x120 cm and 105x180 cm, steel lattice, on hot dip galvanized metal frame

Basketball backboards with dimensions 90x120 cm and 105x180 cm, entirely made of steel. The lattice is mounted inside the steel frame, all protected against corrosion by hot dip galvanizing. Intended for outdoor use, available in two versions: for mounting on a single-post structure and on double-post structure.



1-81 Professional backboard 105x180 cm

1-82 Training backboard 90x120 cm

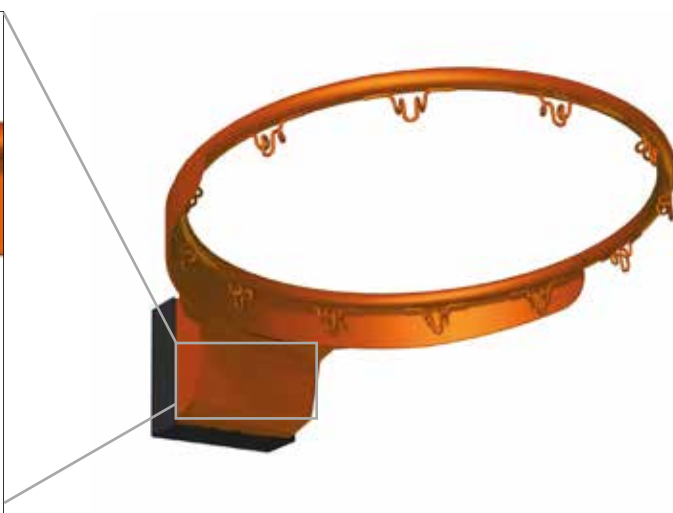
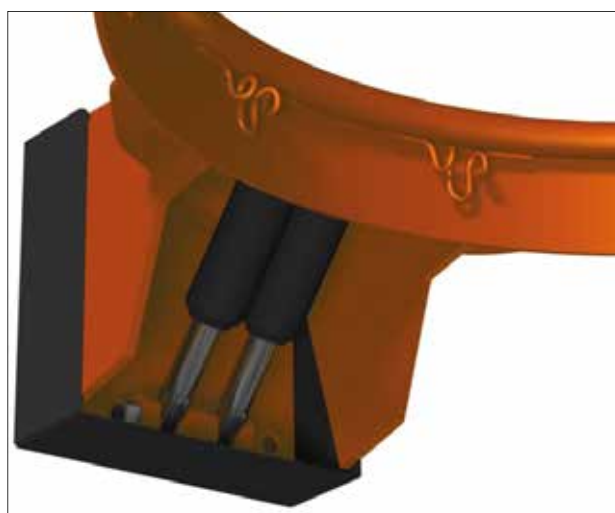
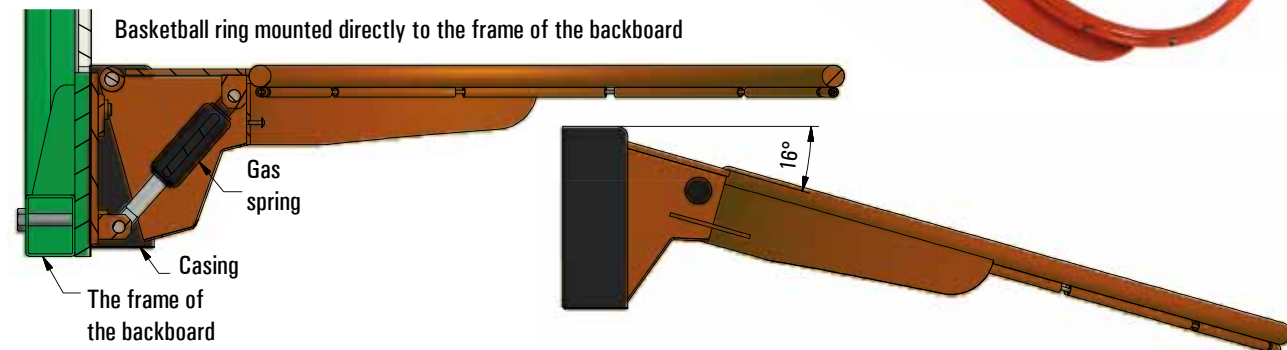


Basketball ring PRESSMATIC, tilting on gas springs

Additional strengthening improves its durability. The tilting mechanism uses gas springs. Closed casing of the tilting mechanism guarantees full safety.

By using modern technical solution, the ring returns immediately to the starting position and is vibration free.

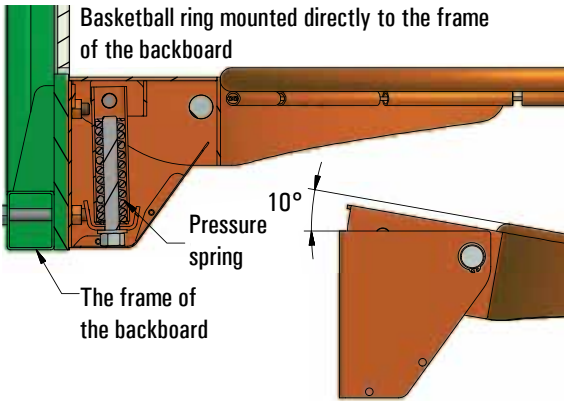
Powder coated (colour according to the regulations). Recommended assembly to backboards installed indoor (gymnasium, sports hall).



Art. No.	Basketball rings PRESSMATIC	Typical	Available on request
1-02	Basketball ring PRESSMATIC, equipped with a system of 12 safe hooks to attach the net	x	
1-02-1	Basketball ring PRESSMATIC, equipped with the safe net attaching system (without hooks)	x	
1-02-10	Basketball ring PRESSMATIC, with innovative, safe net attaching system, with bracing collar made of bent metal sheet with laser cut mounting holes for fixing the net		x

Basketball ring SPRINGMATIC, tilting on springs

The ring has a built-in tilting mechanism, using one or a few springs. It tilts with a load of approx. 35, 70 or 105 kg. Additional strengthening improves its durability. Available in two versions: mounted to backboards, installed indoor (powder coated models, colour in accordance with regulations) or installed outdoor (hot-dip galvanized).



Basketball rings SPRINGMATIC for indoor use	Art. No.	Tilts with a load	Typical	Available on request
Basketball ring SPRINGMATIC, powder coated, equipped with a system of 12 safe hooks to attach the net	1-06/35	35 kg		x
	1-06/70	70 kg		x
	1-06/105	105 kg		x
Basketball ring SPRINGMATIC, powder coated, net fixing system using the rod (without hooks)	1-06-1/35	35 kg	x	
	1-06-1/70	70 kg	x	
	1-06-1/105	105 kg	x	
Basketball ring SPRINGMATIC, powder coated, with bracing collar made of bent metal sheet with laser cut mounting holes for fixing the net	1-06-10/35	35 kg		x
	1-06-10/70	70 kg		x
	1-06-10/105	105 kg		x



Basketball rings SPRINGMATIC for outdoor use	Art. No.	Tilts with a load	Typical	Available on request
Basketball ring SPRINGMATIC, hot-dip galvanized, equipped with a system of 12 safe hooks to attach the chain net	1-06-3/35	35 kg		x
	1-06-3/70	70 kg		x
	1-06-3/105	105 kg		x
Basketball ring SPRINGMATIC, hot-dip galvanized, net fixing system using the rod (without hooks)	1-06-2/35	35 kg		x
	1-06-2/70	70 kg		x
	1-06-2/105	105 kg		x
Basketball ring SPRINGMATIC, hot-dip galvanized, equipped with 12 handles to attach the chain net	1-06-05/35	35 kg	x	
	1-06-05/70	70 kg	x	
	1-06-05/105	105 kg	x	
Basketball ring SPRINGMATIC, hot-dip galvanized, equipped with 8 handles to attach the chain net	1-06-4/35	35 kg		x
	1-06-4/70	70 kg		x
	1-06-4/105	105 kg		x
Basketball ring SPRINGMATIC, hot-dip galvanized, with bracing collar made of bent metal sheet with laser cut mounting holes for fixing the net	1-06-11/35	35 kg		x
	1-06-11/70	70 kg		x
	1-06-11/105	105 kg		x



STANDARD basketball rings

Reinforcement made of metal sheet 3 mm thick. Available in two versions: mounted to backboards, installed indoor (powder coated models, colour in accordance with regulations) or installed outdoor (hot-dip galvanized).



Art. No.	STANDARD basketball rings for indoor use	Typical	Available on request
1-01	STANDARD basketball ring, powder coated, equipped with a system of 12 safe hooks to attach the net	x	
1-01-1	STANDARD basketball ring, powder coated, net fixing system using the rod (without hooks)		x



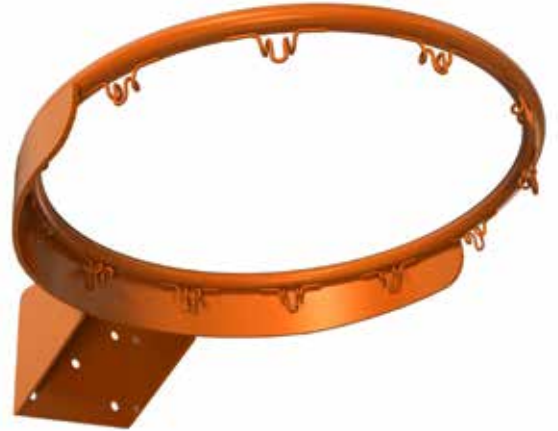
Art. No.	STANDARD basketball rings for outdoor use	Typical	Available on request
1-01-5	STANDARD basketball ring, hot-dip galvanized, equipped with 12 handles to attach the chain net	x	
1-01-4	STANDARD basketball ring, hot-dip galvanized, equipped with 8 handles to attach the chain net	x	
1-01-3	STANDARD basketball ring, hot-dip galvanized, equipped with a system of 12 safe hooks to attach the net		x
1-01-2	STANDARD basketball ring, hot-dip galvanized, net fixing system using the rod (without hooks)		x



REINFORCED basketball rings

Reinforcement made of metal sheet 5 mm thick. Available in two versions: mounted to backboards, installed indoor (powder coated models, colour in accordance with regulations) or installed outdoor (hot-dip galvanized).

Art. No.	REINFORCED basketball rings for indoor use	Typical	Available on request
1-04	REINFORCED basketball ring, powder coated, equipped with a system of 12 safe hooks to attach the net	x	
1-04-1	REINFORCED basketball ring, powder coated, net fixing system using the rod (without hooks)		x
1-04-10	REINFORCED basketball ring, powder coated, with bracing collar made of bent metal sheet with laser cut mounting holes for fixing the net		x



Art. No.	REINFORCED Basketball rings for outdoor use	Typical	Available on request
1-04-3	REINFORCED basketball ring, hot-dip galvanized, equipped with a system of 12 safe hooks to attach the net		x
1-04-2	REINFORCED basketball ring, hot-dip galvanized, net fixing system using the rod (without hooks)		x
1-04-5	REINFORCED basketball ring, hot-dip galvanized, equipped with 12 handles to attach the chain net		x
1-04-4	REINFORCED basketball ring, hot-dip galvanized, equipped with 8 handles to attach the chain net		x
1-04-11	REINFORCED basketball ring, hot-dip galvanized, with bracing collar made of bent metal sheet with laser cut mounting holes for fixing the net		x



POPULAR basketball rings

The ring intended for use in training sets, with stiffening bar supports. Available in two versions: mounted to backboards, installed indoor (powder coated models, colour in accordance with regulations) or installed outdoor (hot-dip galvanized).



Art. No.	POPULAR basketball rings for indoor use	Typical	Available on request
1-05	POPULAR basketball ring, powder coated, equipped with a system of 12 safe hooks to attach the net	x	
1-05-1	POPULAR basketball ring, powder coated, net fixing system using the rod (without hooks)		x



Art. No.	POPULAR basketball rings for outdoor use	Typical	Available on request
1-05-3	POPULAR basketball ring, hot dip galvanized, equipped with a system of 12 safe hooks to attach the net		x
1-05-2	POPULAR basketball ring, hot dip galvanized, net fixing system using the rod (without hooks)		x
1-05-5	POPULAR basketball ring, hot dip galvanized, equipped with 12 handles to attach the chain net		x
1-05-4	POPULAR basketball ring, hot dip galvanized, equipped with 8 handles to attach the chain net		x



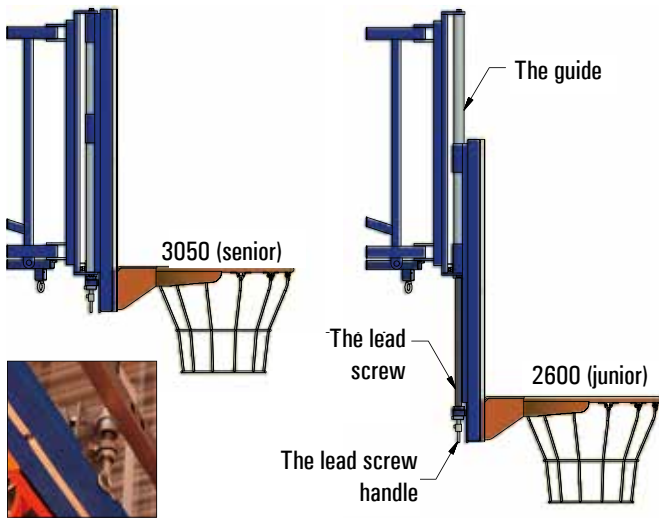
Galvanized chain nets, 8 or 12 fixing points



1-52 Basketball chain net, 8 fixing points

1-53 Basketball chain net, 12 fixing points





Height adjustment mechanism for basketball backboard

Height adjustment mechanism for basketball backboards 90x120 cm and 105x180 cm. The structure of this mechanism allows easily and quickly change the height of the backboard with the basketball ring in the range of 260 - 305 cm from the ground. This is done manually by turning the lead screw, made of the smooth rod with the diameter of 20 mm, with the control crank. Intended for backboards, installed on all types of mounting structures.

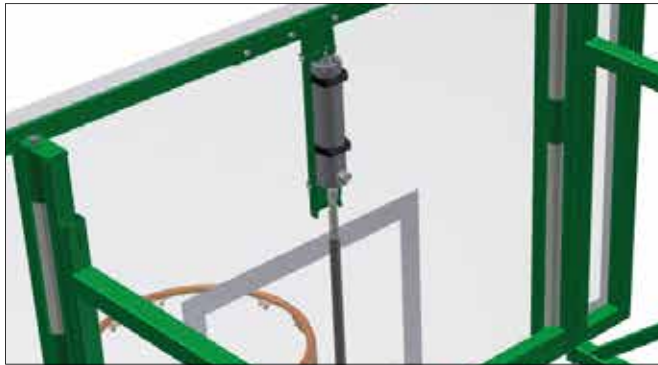
1-41 Height adjustment mechanism for basketball backboard 105x180 cm

1-42 Height adjustment mechanism for basketball backboard 90x120 cm

1-43 Height adjustment mechanism for basketball backboard 105x180 cm, hot dip galvanized

1-44 Height adjustment mechanism for basketball backboard 90x120 cm, hot dip galvanized

1-45 Electrical drive module for basketball backboard height adjustment mechanism (wired or wireless controlled)



Electrical drive

Basketball post protection pad

1-35 **1-35-15**

Made of sponge 5 cm thick, covered with PVC 650 g/m², fastened with Velcro, height: 200 cm. Available colours: blue, green, red.

Basketball nets

We offer a wide selection of nets for basketball rings. Among the models are training, tournament and professional nets.

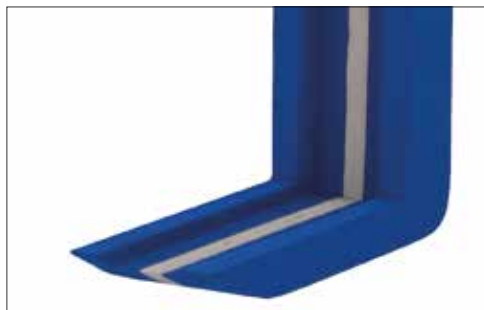
Protective pads for basketball backboards

Made of polyurethane sponge, fixed to the edge of basketball backboard 90x120 cm or 105x180 cm, provides security during the game. Available colours: blue, green, red.



1-31 Protective pad for backboard 105x180 cm

1-33 Protective pad for backboard 90x120 cm



FIVB approved volleyball system

FIVB approved volleyball system (Certificate Official - FIVB – Approved). High quality materials and attractive design. Universal, professional, intended for competition at every level.

The system includes:

- Volleyball posts
- Protective pads for posts
- Assembly sleeve with masking lid
- Antennas for the volleyball net
- Volleyball referee chair
- Volleyball net

2-90

2-92

2-91

2-94

2-95

2-93



All system components are FIVB certified



Professional system of aluminum volleyball posts ALFA 70x120 mm, with internal tension



Professional aluminum volleyball posts, multifunctional with internal tension

Professional volleyball posts are made of special aluminum profile 70x120 mm, which provides high stiffness and resistance to bending. Entire tension mechanism is located inside the profile. The structure of the posts allows to set a net at any height in the range of 106 - 250 cm, which makes it applicable to tennis and badminton.

Designers used innovative tension mechanism. The net tension mechanism is locked by an eccentric clamp with Teflon liner. The tension mechanism is operated using integrated foldable crank, hidden inside the main profile after use.

The net is secured to the posts at 6 points. The end of the tension cord is connected to the external piece of cord, using quick links, which simplifies the net installation process.

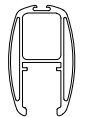
The posts are intended for installation in sports halls with a width minimum 12 m; can be also used outdoor. Lashings from the ground are not required.

By using an additional strip with handles, the posts have the possibility of two-sided use (the set of two-sided posts should be ordered separately).

2-30



Aluminum profile



70x120 mm

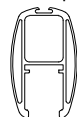
Professional aluminum center volleyball post with internal tension



Professional aluminum center volleyball post with internal tension mechanism, locking by eccentric clamp. Made of special profile 70x120 mm. This design allows to set the net at any height, which makes it applicable to volleyball, tennis and badminton. The tension mechanism is operated using integrated foldable crank, hidden inside the main profile after use.

Ability to use the post as a center post is achieved through the installation of additional strip in a specially designed groove in the post profile.

Aluminum profile



70x120 mm

2-05

Protective pads for professional volleyball posts (profile 70x120)

Protective pads for professional volleyball posts, made of a sponge 5 cm thick, covered with synthetic leather on reinforcement structure, fastened with Velcro. The pads increase the safety of using the posts.

Height: 200 cm.

Available colours: yellow, blue.



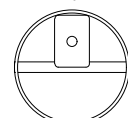
2-35



Assembly sleeve for professional aluminum post

Assembly sleeve for professional aluminum post, intended for mounting volleyball professional aluminum post with internal tension. The sleeve is made of steel profile with the diameter of 133 mm, protected by hot-dip galvanizing.

Steel profile



Ø133 mm



2-31

Tournament system of aluminum volleyball posts BETA 120x100 mm, tension mechanism type SLIM



Tournament volleyball posts, aluminum profile 120x100 mm, tension mechanism type SLIM

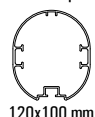
Aluminum volleyball posts are made of special ribbed aluminum profile 120x100 mm, mounted in the sleeves embedded in the sports hall's ground (lashings from the ground are not required).

Tension mechanism type SLIM, moved in the groove of the post profile, allows smooth height adjustment of the net in the range from 100 to 250 cm, and posts can be also used to training tennis and badminton games.

Posts are intended for installation in sports halls with a width of over 12 m, and may be also mounted on the outdoor fields.

2-111

Aluminum profile



120x100 mm



Tournament volleyball posts with framework installed to the ground, aluminum profile 120x100 mm

Tournament aluminum volleyball posts, with framework installed to the ground, made of ribbed oval aluminum profile 120x100 mm. Equipped with wheels for easy and convenient transport. Tension mechanism type SLIM, moved in the groove of the post profile, allows smooth net height adjustment in the range of 100 – 250, and the posts can be used for a variety of games (volleyball, tennis, badminton).



Aluminum profile



120x100 mm

2-50



Protective pads for tournament volleyball posts (profile 120x100 mm)

Protective pads for tournament volleyball posts 120x100 mm, made of a sponge 5 cm thick, covered with synthetic leather on reinforcement structure, fastened with Velcro. The pads increase the safety of using the posts.

Height - 200 cm.

Available colours: yellow or blue.

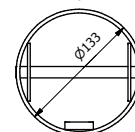


2-35-2

Assembly sleeve for volleyball tournament aluminum post

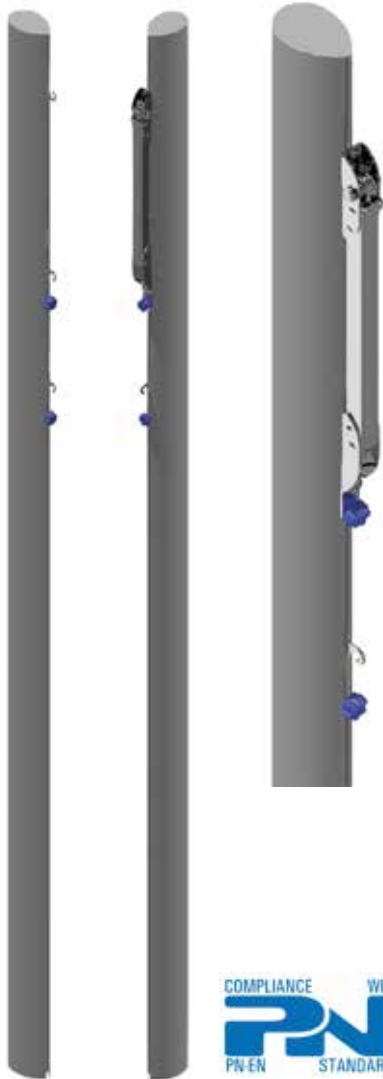
Assembly sleeves designed for installation of tournament volleyball posts 120x100 mm, made of steel profile with outer diameter of 133 mm, protected by hot-dip galvanizing.

Steel profile



2-112

Tournament system of multifunctional aluminum volleyball posts GAMMA 116x76 mm, tension mechanism type SLIM



Multifunctional tournament volleyball posts, aluminum profile 116x76 mm, tension mechanism type SLIM

Volleyball posts made of special aluminum profile 116x76, mounted in the sleeves embedded in the sports hall's ground (lashings from the ground are not required). The net tensioning screw guarded with steel profile.

The system includes: external tension mechanism with the use of guarded trapezoidal screw and an arresting hook, arresting hooks mounted on the opposite post. The posts allows smooth height adjustment of the net in the range from 100 to 250 cm, and can be also used to tennis and badminton games.

Posts are intended for installation in sports halls with a width of over 12 m, and may be also mounted on the outdoor fields.

The posts can also be installed on beach volleyball courts, using special assembly sleeves, embedded in the sand or concreted.

Aluminum profile



116x76 mm

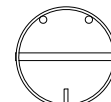
2-101

Assembly sleeve for volleyball tournament aluminum post

116x76 mm

Assembly sleeves designed for installation of tournament volleyball posts with external tension, made of steel profile with outer diameter of 133 mm, protected by hot-dip galvanizing.

Steel profile



Ø133 mm



2-01-1

Protective pads for tournament volleyball posts (profile 116x76 mm)

Protective pads for tournament volleyball posts 116x76 mm, made of a sponge 5 cm thick, covered with synthetic leather on reinforcement structure, fastened with Velcro. The pads increase the safety of using the posts. Height - 200 cm. Available colours: yellow or blue.

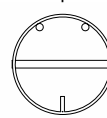


2-11

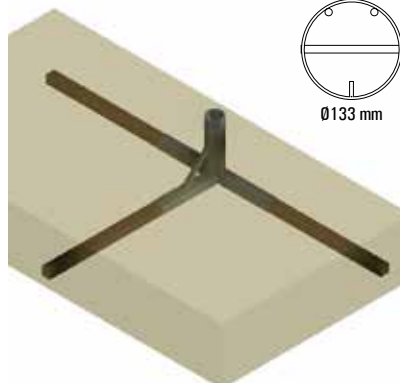
Assembly sleeve for aluminum post 116x76, version for beach volleyball

Assembly sleeve for aluminum post 116x76 mm, made of hot-dip galvanized steel (Ø133 mm), version for beach volleyball with special square-sawn timbers.

Steel profile



Ø133 mm

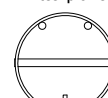


2-54

Assembly sleeve for tournament aluminum post, L= 100 cm

Assembly sleeve for installation of volleyball aluminum tournament post 116x76 mm, made of steel profile (Ø133 mm), version for beach volleyball, extended L=100 cm (for concreting), protected by hot-dip galvanizing.

Steel profile



Ø133 mm



2-01-11

System of multifunctional steel volleyball posts DELTA 80x80 mm



Steel profile
80x80 mm



Multifunctional steel volleyball posts, profile 80x80 mm, tension mechanism type SLIM

Volleyball posts, made of special steel profile 80x80 mm, mounted in the sleeves embedded in the sports hall's ground (lashings from the ground are not required). The net tensioning screw guarded with steel profile.

The system includes: external tension mechanism, with the use of guarded trapezoidal screw and an arresting hook, arresting hooks mounted on the opposite post. The posts allows smooth height adjustment (the entire unit can be used universally for volleyball, tennis or badminton). The posts are available in two versions – powder coated (indoor facilities) or hot-dip galvanized (outdoor use).

The posts can also be installed on beach volleyball courts, using special assembly sleeves, embedded in the sand or concreted.

2-104

Volleyball central steel post, profile 80x80 mm, multifunctional, tension mechanism type SLIM



Volleyball central steel post, hot-dip galvanized, steel profile 80x80 mm, multifunctional with smooth height adjustment, tension mechanism type SLIM.

Steel profile
80x80 mm

2-102

Protective pads for steel volleyball posts

Protective pads for tournament volleyball posts 116x76 mm, made of a sponge 5 cm thick, covered with synthetic leather on reinforcement structure, fastened with Velcro. The pads increase the safety of using the posts. Height - 200 cm. Available colours: yellow or blue.



2-11

Assembly sleeve for steel post 80x80 mm

Assembly sleeve for mounting steel volleyball post 80x80 mm, made of steel profile 90x90 mm, protected by hot-dip galvanizing.

Steel profile
90x90 mm



2-04-1

Assembly sleeve for steel post 80x80 mm, L=100 cm

Assembly sleeve 100 cm long for installation of beach volleyball steel post 80x80 mm, made of steel profile 90x90 mm, protected by hot-dip galvanizing.

Steel profile
90x90 mm



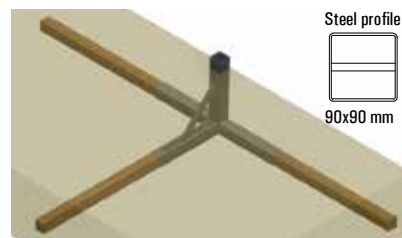
2-04-11

Assembly sleeve for steel post 80x80 mm, version for beach volleyball

Assembly sleeve for steel post, made of hot-dip galvanized steel (profile 90x90 mm), version for beach volleyball with special square-sawn timbers.

2-55

Steel profile
90x90 mm





Steel volleyball posts with crank tension

Steel volleyball posts, multifunctional with smooth net height adjustment (volleyball, tennis, badminton), crank tension with the cylinder and the transmission gear, hot-dip galvanized; post's spacing up to 12 m.

The posts are made of special steel profile 80x80 mm, mounted in steel sleeves embedded in the ground. The cord of the net is wound onto safe tensioning mechanism in the form of drum. The process of fixing and stretching the net is very simple, with the use of demountable crank, which rotates the drum through the self-locking worm gear. This design allows to set the net at any height in the range of 106 - 250 cm (the entire unit can be used universally for volleyball, tennis and badminton).

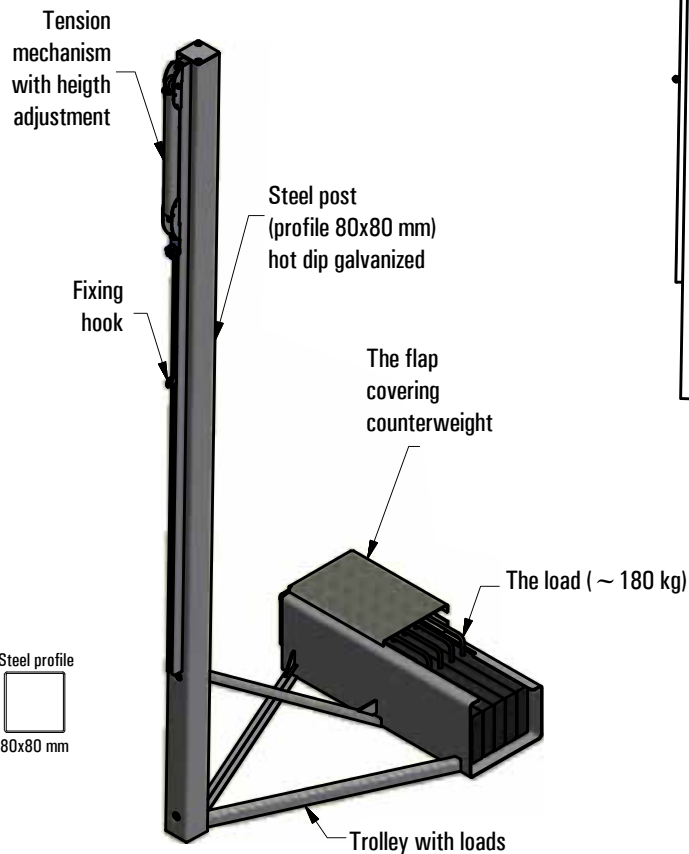
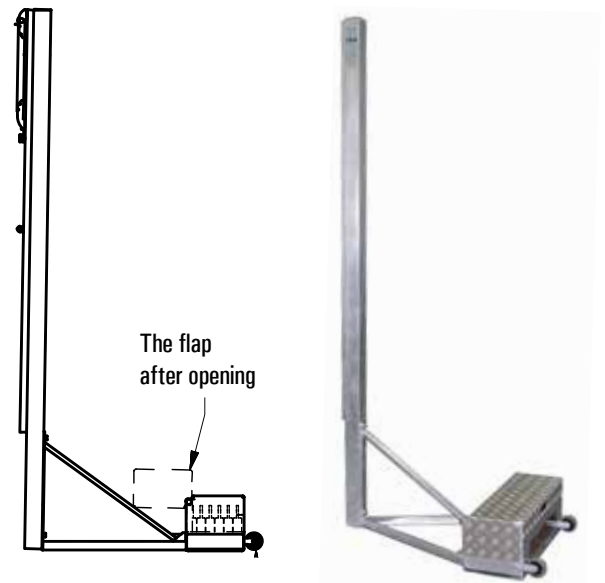
The posts can also be installed on beach volleyball courts, using special assembly sleeves, embedded in the sand or concreted.

2-40

Steel free-standing volleyball posts with counterweight, tension mechanism type SLIM

Complete set includes two steel stands with height adjustment and with loads (180 kg per 1 post), which ensure stability of the system. To facilitate transport, the system is equipped with wheels. Special handles ensure a safe insertion and removal of loads. Posts are manufactured in two options: painted (for indoor facilities) or hot-dip galvanized (outdoor use).

2-32



Steel volleyball posts with framework installed to the ground

The posts are made of special steel profile 80x80 mm, embedded on a frame basis, for quick and secure installation to the floor, using the anchor. This system is mainly intended for use in sports halls, where installation of the sleeves is difficult, e.g. on the 1st floor.

The post is fixed to the ground using the screw with the handle, screwed to the anchor embedded in the concrete slab of the sports hall. Large surface of the lower frame profiles safely lies on the floor, without the risk of damage to its surface. Wheels, installed at the rear of the frame, allow the post to be moved to the storage after dismantling.

The cord of the net is wounded onto safe tensioning mechanism in the form of drum. The process of fixing and stretching the net is very simple, with the use of demountable crank, which rotates the drum through the self-locking worm gear.

All elements are securely finished; protruding elements are covered with plastic caps, therefore providing safe use. This design allows to set the net at any height in the range of 106 - 250 cm (the entire unit can be used universally for volleyball, tennis and badminton).

Steel profile



80x80 mm



2-41

Set of wall-mounted steel rails with tension mechanism type SLIM

The rails, mounted to the opposite walls, serves as a guides for tension mechanism and arresting hooks.

This design allows to set the net at any height in the range of 50 - 250 cm from the ground (the entire unit can be used universally for volleyball, tennis or badminton).

The rails are intended for installation in sports halls with a width up to 12 m.

2-103 Set of wall-mounted rails with tension mechanism

2-03-1 Protective pads for wall-mounted volleyball rails

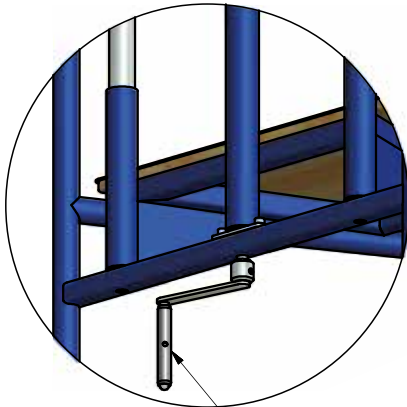


Volleyball umpire stand

Volleyball umpire stand with height-adjustable platform, backrest and writing holder. Made of thin-walled steel pipes, powder coated. The stand is equipped with wheels, facilitating the transport.

2-20 Volleyball umpire stand

2-20-SK Foldable volleyball umpire stand



Height adjustment crank



Protective pads for volleyball umpire stand

Protective pads for volleyball umpire stand, made of a sponge 5 cm thick, covered with synthetic leather on reinforcement structure, fastened with Velcro. Available colours: blue, green, yellow.

2-20-1



Beach volleyball umpire stand

Beach volleyball umpire stand with height-adjustable platform, backrest and writing holder. Made of thin-walled steel pipes, powder coated. The stand is equipped with wheels and a base to bury in the sand (for better stability).

2-46



Portable trolley for volleyball posts

Portable metal trolley on wheels, intended for transportation and storage of 3 pairs of volleyball posts.

Powder coated for any colour from available RAL palette.



2-80

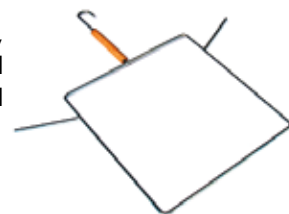
Volleyball nets



We offer a complete selection of volleyball nets. Among the models are training and tournament nets (also FIVB compliant), designed for indoor and outdoor play.

Net hanger

Universal net hanger for volleyball, tennis and badminton, designed for its fast unrolling, rolling and storage.



2-06

Device for measuring the height of the net

Made of steel pipe, powder coated in silver.



2-70

Beach volleyball court boundary lines

2-72 Beach volleyball court boundary lines (field 8x16 m), with fixing pines



2-59-3 Universal court boundary lines Pesm-H (field 9x18 m, 8x16 m), with anchors to fix the corners



Protective pads for aluminum volleyball posts

Protective pads for aluminum volleyball posts, made of a sponge 3 cm thick, covered with synthetic leather, fastened with Velcro. Height: 200 cm. Available colours: yellow, blue.

2-12



Protective pads for beach volleyball posts

Protective pads for tournament volleyball posts, made of a sponge 5 cm thick, covered with synthetic leather on reinforcement structure, fastened with Velcro. The pads increase the safety of using the posts.

Height: 200 cm.

Available colours: yellow, blue.

2-11

Floor plate with the masking lid

Designed for installation in the floor of the sports halls. Secures the sleeves after removing the posts.

The lid, made of plywood, mounted on a hot-dip galvanized steel frame, screwed to the floor. The magnetic system of stabilizing the lid, preventing from falling by 6 pieces of magnets.



7-13

PU frame with the masking lid

PU frame with the masking lid for aluminum or steel assembly sleeve, intended for fixing on outdoor courts with polyurethane surface.



2-63

The lid masking assembly sleeve for aluminum post

The lid masking assembly sleeve for aluminum post, intended for the outdoor court (grass or asphalt).

2-61 The lid masking assembly sleeve for aluminum post 120x100 mm and 116x76 mm



The lid masking assembly sleeve for steel square post 80x80 mm

The lid masking assembly sleeve for steel square post 80x80 mm, intended for the outdoor court (grass or asphalt).



2-62





Aluminum profile



116x76 mm

Professional aluminum tennis posts

Made of special oval aluminum profile 116x76 mm, installed in assembly sleeves embedded in the ground. The posts are equipped with internal tensioning device, using a trapezoidal screw and the detent wheel (arresting hooks are placed on the opposite post).

4-01



Assembly sleeve for aluminum post 116x76 mm

Assembly sleeve for aluminum post 116x76 mm, made of steel profile with the diameter of 133 mm, protected by hot-dip galvanizing.



Ø133 mm

2-01-1



Steel tennis posts

Made of square steel profile 90x90 mm and 80x80 mm (lower part), easily demountable, installed in assembly sleeves embedded in the ground. The posts are equipped with internal tensioning device, using a trapezoidal screw and the detent wheel.

4-03

Assembly sleeve for steel post 80x80 mm

Assembly sleeve for mounting steel post, made of steel profile 90x90 mm, protected by hot-dip galvanizing.

Steel profile



90x90 mm

2-04-1



Tennis lines for grass courts

Easy to install system of tennis lines for grass and clay courts, made of PVC.

4-22



The tape tightening the tennis net

The tape tightening the tennis net, along with a weight.

4-21



Supports for single game

Made of steel tube, galvanized.

4-20



Tennis nets

We offer a wide selection of tennis nets in white, black or green. Among the models are nets of different weave thickness. Also available professional nets with an apron.

Badminton posts, installed in assembly sleeves

Made of steel profile 40x40 mm, hot dip galvanized, installed in assembly sleeves embedded in the ground of the sports hall or court.



10-01

Assembly sleeve for badminton post

Assembly sleeve, intended for mounting steel badminton post, made of steel profile 50x50 mm.



10-01-1

10-12 The lid, masking assembly sleeve for badminton post on outdoor court.



Badminton nets

We offer badminton nets in white, black or green.



Badminton court boundary tape

Badminton court boundary tape, colour: blue. Fixing pins in the set.



10-1703

Portable professional badminton stand on wheels, with counterweight

Portable professional badminton post on wheels, made of square steel profile, with additional load 50 kg or 75 kg, comply with BWF competition requirements. Equipped with the eccentric tension mechanism.



10-06 Portable professional badminton post on wheels, with additional load 50 kg

10-06-75 Portable professional badminton post on wheels, with additional load 75 kg

Portable badminton stand on wheels, with the load

Portable posts, made of galvanized steel profile, equipped with wheels and with powder coated stands with the load (~ 30 kg).

Adjustable foot allows to set the height of the posts.

10-05



Tennis and badminton referee chair

The stand is made of powder coated closed steel profiles and is equipped with a plastic seat with backrest.

The stand is foldable for easy storage.

4-04





Professional aluminum football goals 7,32x2,44 m

Made of special oval aluminum profile 120x100 mm with double reinforcing ribs. The main frame of the goal powder coated in white. Installed in assembly sleeves.

The set includes:

- the main frame;
- assembly sleeves with masking lids;
- sleeve-mounted net tensioning posts, equipped with protective pads;
- upward-folding bottom frame for fastening the bottom edge of the net.

Football goals are certified for compliance with the FIFA standards.

9-01 Depth of the net 2 m

9-01-1 Depth of the net 3 m

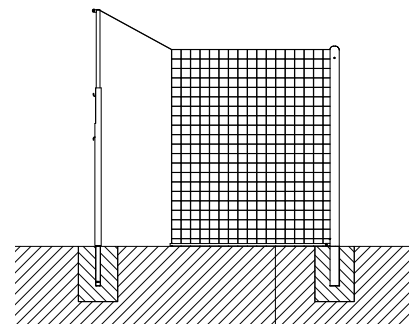


Innovative joint system

Innovative system of connecting profiles in the corner of the goal transfers the loads from the profile directly to the steel corner connector, without applying the load to the screws, what considerably increases the durability of the goal.



Standard assembly sleeve with masking lid



Depth of the net 2 or 3 m



Bottom frame folding system for easy lawn care

Special assembly sleeves for football goals 7,32x2,44 m and lashings

Special assembly sleeves for full-size football goals 7,32x2,44 m and lashings, with integrated masking components. Available on request.

9-50



The sleeve ready for installation



Masking element, integrated with the sleeve



The sleeve after removal from the goal and masking



Special sleeve for lashings



Portable aluminum training football goals 7,32x2,44 m

Made of special oval aluminum profile 120x100 mm. The foldable bows enable fast assembly and disassembly as well as facilitate storage. Connection of the goal with the bottom frame ensures stability. Fixing to the ground using the pins driven into the soil.

9-02



The set of pins

The set of pins driven into the soil to install the goal consists of 8 pins (4 pins for one goal).



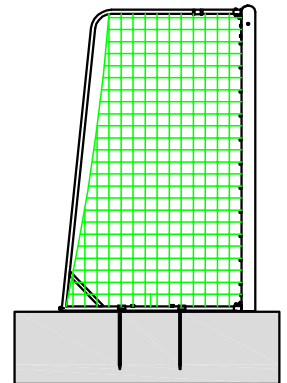
3-21

The load for goals

Protects the goal from falling over by pressing the lower frame to the ground. Weight after filling with sand: approx. 50 kg.



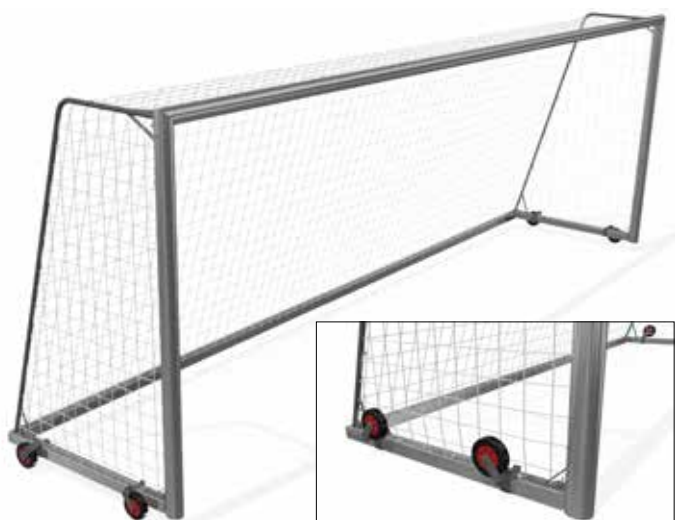
9-22-1



Mounting using fixing pins

Mobile aluminum football goals 7,32x2,44 m with 4 wheels

Mobile aluminum football goals 7,32x2,44 m with solid bows. The main frame of the goal, made of oval aluminum profile 120x100 mm with double strengthening ribs, consists of two vertical posts and a horizontal crossbar. These elements are joined by a connecting corner, fixed inside the aluminum profiles and screwed with conical head screws M8x20 from the outside. Bottom frame made of strengthened aluminum profile 80x80 mm, intended to be filled with sand. 4 wheels, fastened to the bottom frame, when unfolded, allow fast and easy transport of the goal. The frame of the goal is protected by anodizing or powder coating, steel elements are hot dip galvanized.



9-62



Football goals 5x2 m, oval aluminum profile

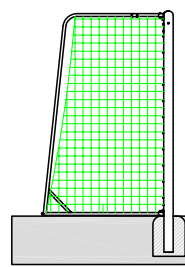
Football goals for youth 5x2 m are made of special oval aluminum profile 120x100 mm with double reinforcing ribs. Installed using installation plates / supports, fixing pins or in assembly sleeves embedded in the ground.

The structure of goals allows to fold them along with the net. All metal elements of the goal (apart from the main frame) are made of hot dip galvanized steel.



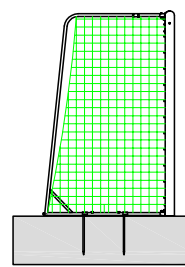
Goal mounted using installation plates / supports

9-06-1



Goal mounted in assembly sleeves

9-05



Goals mounted using fixing pins

9-06



Assembly systems:

Set of plates - support

Set of plates - support, embedded in concrete, to install the goals on asphalt or concrete socle. The set consists of 8 binding screws and 8 fixing plates.

3-22



Set of installation plates

The set of plates to install the goal on the sports floor consists of 8 binding screws and 8 fixing metal sheets. One set of plates for one pair of goals.

3-23



Assembly sleeve

Assembly sleeve with masking lid for installation of oval post.

9-05-51



Set of fixing pins

The set of pins driven into the soil to install the goal consists of 8 pins (4 pins for one goal).

3-21



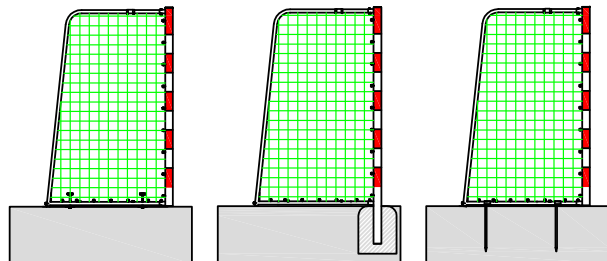


Football goals 5x2 m, square profile

Made of square profile 80x80 mm – aluminum (available in two types: standard or reinforced) or steel, marked with black tape. The goals are assembled using installation plates / supports, fixing pins or assembly sleeves, concreted in the ground.

The structure of goals allows to fold them along with the net.

- 9-03** Football goals 5x2 m – aluminum profile
- 9-03D** Football goals 5x2 m – reinforced aluminum profile
- 9-04** Football goals 5x2 m – steel profile

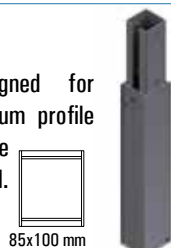


Goal mounted using installation plates / supports (art. No. 3-23 and 3-22) Goal mounted in assembly sleeves (art. No. 3-20) Goal mounted using fixing pins (art. No. 3-21)

Assembly sleeve with adapter

Assembly sleeves with adapter, designed for installation goals, made of steel or aluminum profile 80x80 mm, on the outdoor fields or inside the sports halls. Hot dip galvanized.

3-20



Football goals 5x2 m, square profile, extended, mounted in the sleeves, with folding bows

Made of square reinforced aluminum profile 80x80 mm, marked with black tape. Extended posts of the main frame are mounted directly into the sleeves, so adapters are not needed.

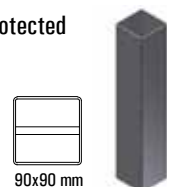
- 9-03DM** Football goals 5x2 m, reinforced aluminum profile 80x80, extended; the main frame of the goal connected at the corners using special steel element (demo-ntable).

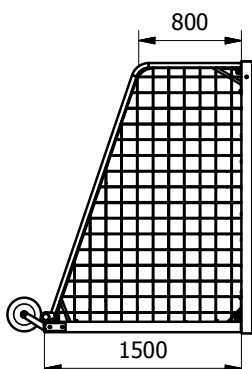


Assembly sleeve for post 80x80 mm

The sleeve made of steel profile 90x90 mm, protected against corrosion by hot dip galvanizing.

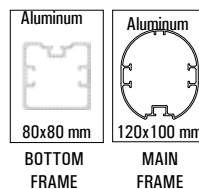
2-04-1





Portable aluminum football goals 5x2 m with wheels, main frame made of oval profile 120x100 mm

The main frame made of special reinforced oval aluminum profile 120x100 mm. Bottom frame made of reinforced aluminum profile 80x80 mm. The bows made of steel pipes (galvanized) with the diameter of 35 mm. The net with the mesh 120x120 mm and the weave 3 - 5 mm thick is fixed, using special plastic clips. The ability to disassemble the goal facilitates transport and storage. The bottom frame must be filled with sand. In addition, the goal can be equipped with a load, made of the rod with the diameter of 50 mm (the set does not contain additional load).



9-61

Portable aluminum football goals 5x2 m with wheels, square profile 80x80 mm

The main frame and bottom frame made of special aluminum profile 80x80 mm with additional ribs to strengthen structure of the goal. The bows made of steel pipes (galvanized) with the diameter of 35 mm. The net with the mesh 120x120 mm and the weave 3 - 5 mm thick is fixed, using special plastic clips. The ability to disassemble the goal facilitates transport and storage. The bottom frame must be filled with sand. In addition, the goal can be equipped with a load, made of the rod with the diameter of 50 mm (the set does not contain additional load).



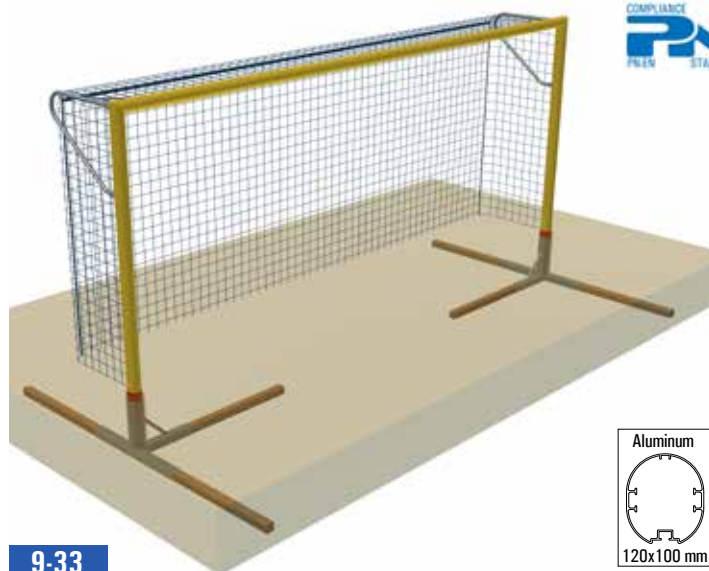
9-60

The load for goals made of the rod

The load for goals, made of the rod 50 mm thick and protecting metal sheets. Mounted to stabilize the goal. Weight of 1 piece: 85 kg.



9-63

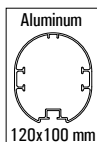


Assembly sleeve for beach football goal, embedded in the sand

Designed for mounting beach football goals with oval aluminum posts (profile 120x100 mm), made of steel.



9-33

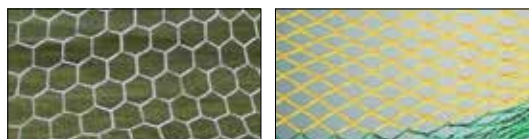


Beach football goals

Beach football goals 5,50x2,20 m are made of special oval aluminum profile 120x100 mm, with double reinforcing ribs. Depth of the goal: 80 cm. The surface of the profile is powder coated in yellow. The goals are installed in the special sleeves, with special square-sawn timbers, embedded in the sand. Demountable bows allow convenient storage. All metal elements, apart from the main frame, are made of steel and hot dip galvanized (foldable bows, lower crossbar). The main frame is connected in the corners, using safe and easy to use plastic handles. Assembly elements for mounting under other conditions also available.

Football nets

We offer a complete selection of nets for football goals (full size 7,32x2,44 m, goals for youth 5x2 m and beach football goals). Among the models are professional, training and tournament nets for stationary and portable football goals.



Beach football field boundary lines



Beach football field boundary lines Pesm-H, colour: blue. Fastened with wooden planks buried in the sand. Made of polypropylene tape.

9-33-15



Beach football field boundary lines (field 27,5x36,5 m), colour: blue.

9-20-3



Art. No.	Portable Mini-Football goals
9-53-1	Mini-football goals 0,8x1,2 m. Made of aluminum profile 80x80 mm, with demountable bows, depth 50 cm (top and bottom), two fixing points. The nets are included in the set.
9-51-1	Mini-football goals 1,0x1,5 m. Made of aluminum profile 80x80 mm, with demountable bows, depth 50 cm (top and bottom), two fixing points. The nets are included in the set.
9-54	Mini-football goals 1,2x1,8 m. Made of aluminum profile 80x80 mm, with folding bows, depth 50 cm (top and bottom), two fixing points. The nets are included in the set.
9-52	Mini-football goals 1,6x2,4 m. Made of aluminum profile 80x80 mm, with folding bows, depth 50 cm (top and bottom), two fixing points. The nets are included in the set.
9-55	Mini-football goals 1,55x3 m. Made of aluminum profile 80x80 mm, with folding bows, depth 80 / 100 cm (top / bottom), two fixing points. The nets are included in the set.



Shelters for substitutes with acrylic glass cover

The supporting structure made of powder coated steel profiles, bottom frame protected against corrosion by hot dip galvanizing. Aluminum finishing of elements, cover made of acrylic glass 3 mm thick. Plastic seats with backrest. Optionally, the shelter can be equipped with a platform, finished with corrugated aluminum sheet and artificial grass. The shelter should be fixed to the ground. In order to facilitate the transport and handling of the shelter, it is possible to mount the wheels. Up to 14 seats in the shelter.

Art. No.	Number of seats	Length [m]
20-13-1	3-4	2
20-12-1	5-6	3
20-11-1	7-8	4
20-10-1	9-10	5
20-09-1	11-12	6
20-08-1	13-14	7



Shelter for substitutes PESMENPOL VIP

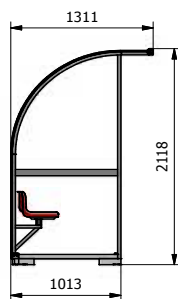
Double row shelter for substitutes, roofed, with upholstered armchairs type VIP. Galvanized supporting frame, powder coated structure. Aluminum finishing of elements, cover made of acrylic glass 6 mm thick, platform made of corrugated aluminum sheet, covered with artificial grass and finished with a decorative angle bar. The upper beam secured with protective material, covered with synthetic leather. Possibility of installing up to 16 seats in the shelter.

20-07



Shelter for substitutes with cellular polycarbonate cover

The supporting structure made of powder coated steel profiles, bottom frame protected against corrosion by hot dip galvanizing. Aluminum finishing of elements, cover made of cellular polycarbonate. Plastic seats with backrest. Optionally, the shelter can be equipped with a platform, finished with corrugated aluminum sheet and artificial grass. The shelter should be fixed to the ground. In order to facilitate the transport and handling of the shelter, it is possible to mount the wheels. Up to 14 seats in the shelter.



Art. No.	Number of seats	Length [m]
20-13-2	3-4	2
20-12-2	5-6	3
20-11-2	7-8	4
20-10-2	9-10	5
20-09-2	11-12	6
20-08-2	13-14	7

Telescopic tunnel for football stadium

Tunnel for football stadium with telescopic system of folding and unfolding. Hot dip galvanized steel structure, aluminum finishing. PVC cover 600 g/m², colour according to the palette of available materials. Plastic rubber coated or polyamide system wheels for the running rail.

The tunnel is equipped with a locking system to prevent uncontrolled closing during use and stiffening the entire structure after unfolding.

The tunnel cover is made of polyester fabric, coated with high-fire-resistant PVC.

9-2100 Telescopic tunnel for football stadium SPT-1. Width inside S=235 cm, internal height H1=230 cm, height H2=275 cm (at the top)

9-2101 Telescopic tunnel for football stadium SPT-2. Width inside S=190 cm, internal height H1=200 cm, height H2=230 cm (at the top)



The running rail for telescopic tunnel


The running rail for the rolls to fold and unfold the telescopic tunnel, made of hot dip galvanized steel, installed permanently or demountable.

9-2110




Steel handball goals, the main frame all-welded

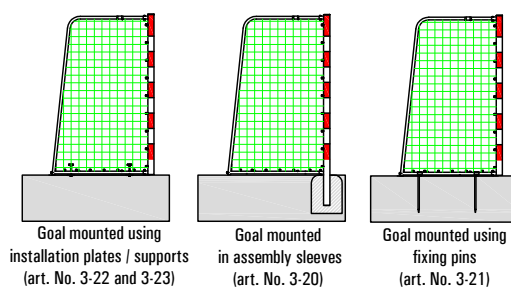
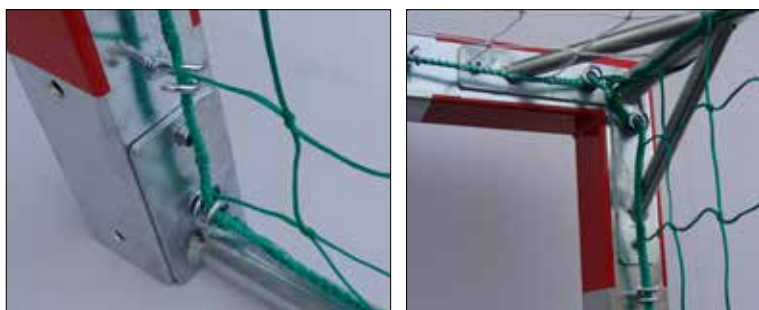
The goals, made and marked in accordance with the IHF standard, are extremely durable and rigid; marked as a standard in red (marking in blue or black available on request). Made in following variants:

Steel  **3-40** Professional steel handball goals 2x3 m, hot dip galvanized, made of profile 80x80 mm, with steel folding bows. The main frame all-welded.

The goals are available with the standard depth (bottom / top):
 A - 1200 mm / 1000 mm
 B - 1000 mm / 800 mm
 C - 800 mm / 600 mm
 D - 500 mm
 PX - wall brackets in length L = X [mm] (for wall-mounted goals)

Steel  **3-40-1** Professional steel handball goals 2x3 m, hot dip galvanized, made of profile 80x80 mm, with steel solid bows. The main frame all-welded.

The goals are available with the standard depth (bottom / top):
 A - 1200 mm / 1000 mm
 B - 1000 mm / 800 mm
 PX - wall brackets in length L = X [mm] (for wall-mounted goals)



The net is fixed to the steel profile, using safe and durable steel grips.

The foldable bows, made of galvanized steel pipe Ø35, enable fast assembly and disassembly as well as facilitate storage.

Goals intended for indoor and outdoor use.


For open sport facilities we recommend fixing the goals using a sleeve with adapters.

Assembly sleeves with adapter

Assembly sleeves with adapter, designed for installation goals, made of steel or aluminum profile 80x80 mm, on the outdoor fields or inside the sports halls. Hot dip galvanized.



3-20

Steel profile

 85x100 mm



Aluminum handball goals, the main frame all-welded

The goals, made and marked in accordance with the IHF standard, are extremely durable and rigid; marked as a standard in red (marking in blue or black available on request). Made in following variants:

Aluminum



80x80 mm

3-41

Professional aluminum handball goals 2x3 m, reinforced, made of aluminum profile 80x80 mm, with folding bows. The main frame all-welded.

The goals are available with the standard depth (bottom / top):

A - 1200 mm / 1000 mm

B - 1000 mm / 800 mm

C - 800 mm / 600 mm

D - 500 mm

PX - wall brackets in length $L = X$ [mm] (for wall-mounted goals)

Aluminum



80x80 mm

3-41-1

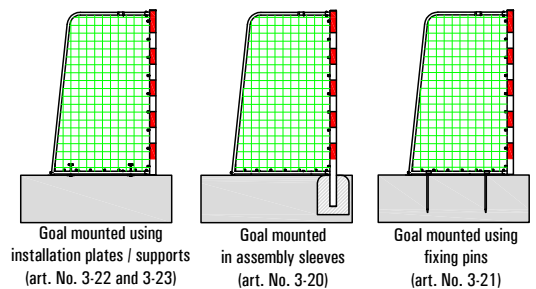
Professional aluminum handball goals 2x3 m, reinforced, made of aluminum profile 80x80 mm, with steel solid bows. The main frame all-welded.

The goals are available with the standard depth (bottom / top):

A - 1200 mm / 1000 mm

B - 1000 mm / 800 mm

PX - wall brackets in length $L = X$ [mm] (for wall-mounted goals)



The net is fixed to the aluminum profile, using special clips, made of frost-resistant plastic, mounted in the groove of the profile.

The foldable bows, made of galvanized steel pipe $\varnothing 35$, enable fast assembly and disassembly as well as facilitate storage.

Goals intended for indoor and outdoor use.

For open sport facilities we recommend fixing the goal using a sleeve with adapters.





Aluminum handball goals, reinforced profile, the main frame connected in the corners

Aluminum



80x80 mm

3-42

Professional aluminum handball goals 2x3 m, made of reinforced aluminum profile 80x80 mm. Steel folding bows. The main frame of the goal connected in the corners using special steel joints, with the possibility of dismantling. The goals are assembled using installation plates / supports or fixing pins.

The goals are available with the standard depth (bottom / top):

A - 1200 mm / 1000 mm

B - 1000 mm / 800 mm

C - 800 mm / 600 mm

D - 500 mm

PX - wall brackets in length $L = X$ [mm] (for wall-mounted goals)

Aluminum



80x80 mm

3-42-1

Professional aluminum handball goals 2x3 m, made of reinforced aluminum profile 80x80 mm. Steel solid bows. The main frame of the goal connected in the corners using special steel joints, with the possibility of dismantling. The goals are assembled using installation plates / supports or fixing pins.

The goals are available with the standard depth (bottom / top):

A - 1200 mm / 1000 mm

B - 1000 mm / 800 mm

PX - wall brackets in length $L = X$ [mm] (for wall-mounted goals)



Aluminum handball goals, reinforced profile, the main frame connected in the corners, mounted in the sleeves

Extended posts of the main frame are mounted directly into the sleeves, so adapters are not needed.



Aluminum



80x80 mm

Professional aluminum handball goals 2x3 m, made of reinforced aluminum profile 80x80 mm, with folding bows. Mounted in assembly sleeves. The main frame of the goal connected in the corners using special steel joints, with the possibility of dismantling.

3-43

The goals are available with the standard depth (bottom / top):

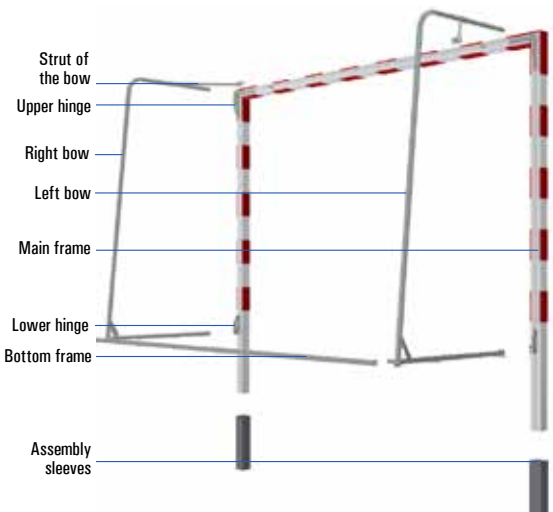
A - 1200 mm / 1000 mm

B - 1000 mm / 800 mm

C - 800 mm / 600 mm

D - 500 mm

PX - wall brackets in length $L = X$ [mm] (for wall-mounted goals)



Aluminum



80x80 mm

Professional aluminum handball goals 2x3 m, made of reinforced aluminum profile 80x80 mm, with solid bows. Mounted in assembly sleeves. The main frame of the goal connected in the corners using special steel joints, with the possibility of dismantling.

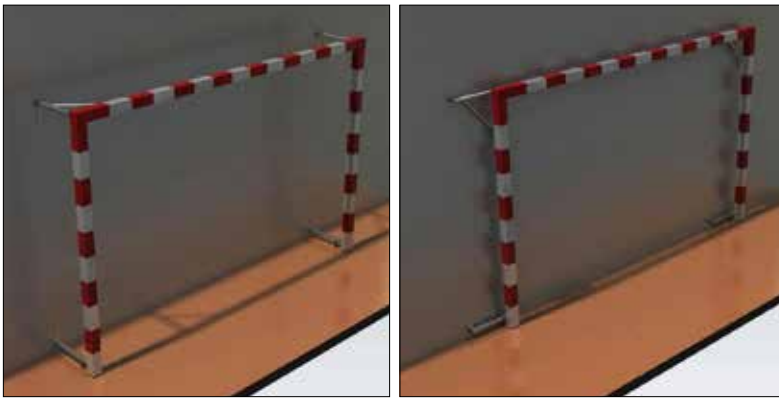
3-43-1

The goals are available with the standard depth (bottom / top):

A - 1200 mm / 1000 mm

B - 1000 mm / 800 mm

PX - wall brackets in length $L = X$ [mm] (for wall-mounted goals)



Wall-mounted handball goals 2x3 m, folded sideways

The frame made of steel or aluminum profile, mounted permanently to the wall, with the possibility of folding sideways, to increase the usable area of the hall. Steel elements, fixing the goal to the wall, hot dip galvanized. Bottom profiles equipped with plastic wheels, facilitating the folding of the goal; screwed upper struts stabilize the structure and block the goal in unfolded position.

3-31S



3-8-1000

Hook fixing the net to the goal on the washer



3-8-1001

Hook fixing the net to the goal on the screw



3-8-1005

Threaded cube for the hook on the screw



Hook fixing the net on the screw with threaded cube



3-51

Plastic handle fixing the net in aluminum profile

Handball nets

We offer a complete selection of nets for handball goals – with or without ball-catchers, made of polypropylene or polyethylene. Among the models are professional, training and tournament nets for outdoor or indoor use, and for beach handball.



Floorball | Goals



Floorball goals

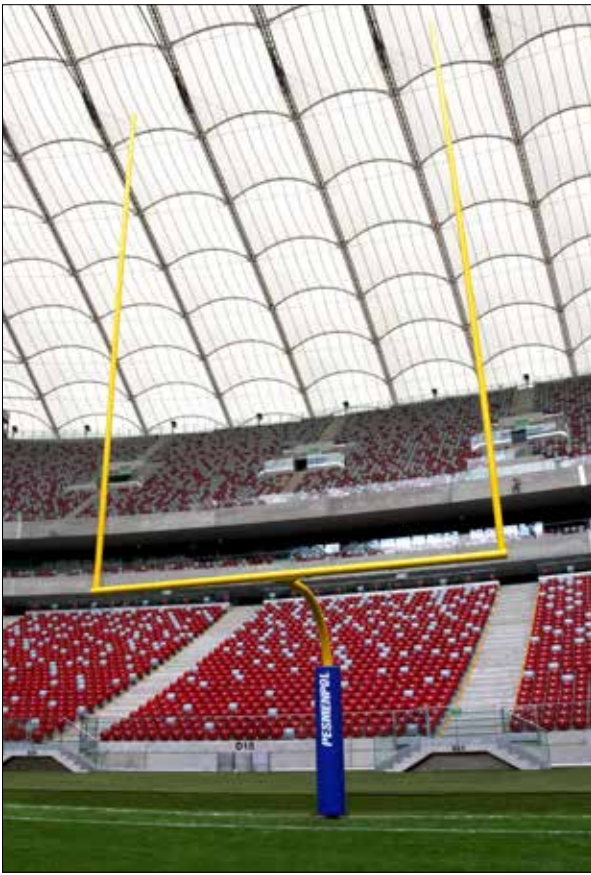
Made of steel pipe, powder coated.

Available in four sizes. Training models equipped with a system of easy folding / unfolding, for easy transport and storage. The net is in the set.

Spring lock ensures stiffness of the bows after unfolding and prevents the automatic folding of the goal.



Model	Art. No.	Colour of the frame
Match floorball goal 115x160 cm	18-1	Red
Foldable club floorball goal 105x140 cm	18-2	Red and white
Foldable floorball goal for youth 60x90 cm	18-3	Red and white
Foldable mini floorball goal 45x60	18-4	Red and white



Professional steel American football goal



American football goals

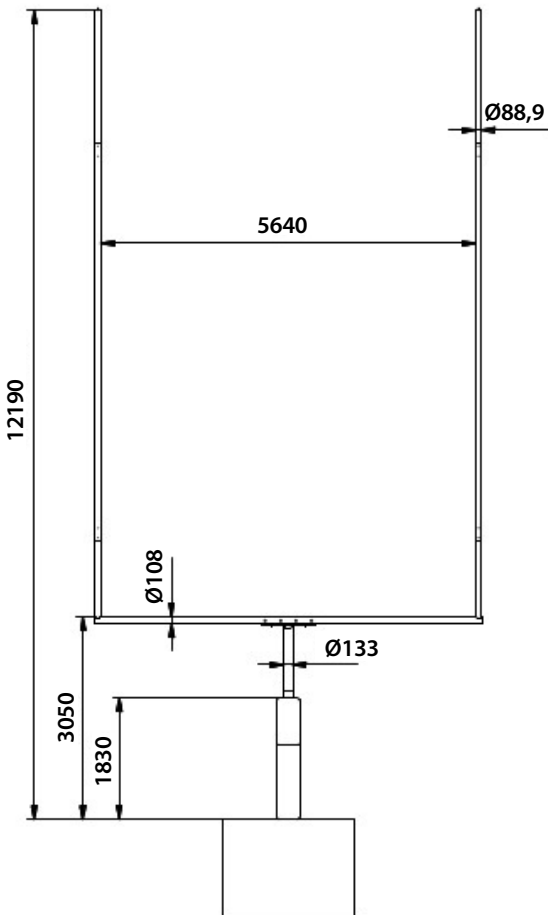
Professional steel or steel and aluminum American football goals, installed in assembly sleeves. Equipped with safety pads. Powder coated in yellow. Compliant with NFL regulations.

An easy disassembly system of the goals improves their functionality on sports facilities of all types.

Professional steel American football goals, comply with NFL

Height 1215 cm, projection 172 cm, clear width 564 cm, crossbar height 305 cm; demountable. Equipped with protective pads 10 cm thick.

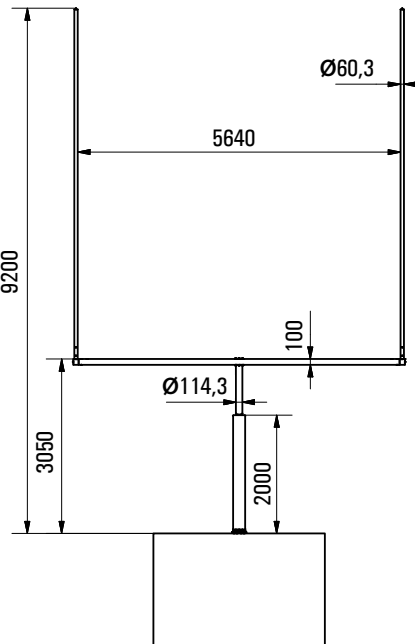
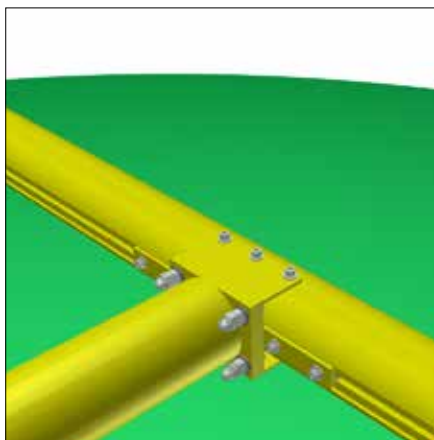
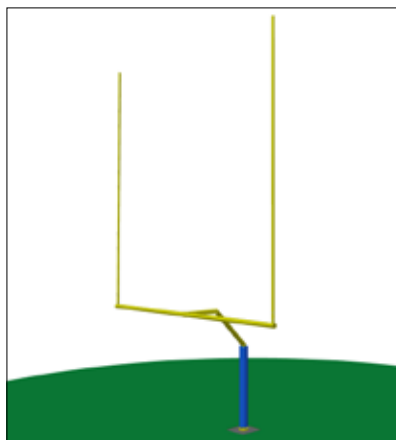
97-3



Protective pads for the post of American football goal, made of a sponge 10 cm thick, covered with synthetic leather on reinforcement structure, fastened with Velcro.



System of mounting the base, embedded in the ground, to the post



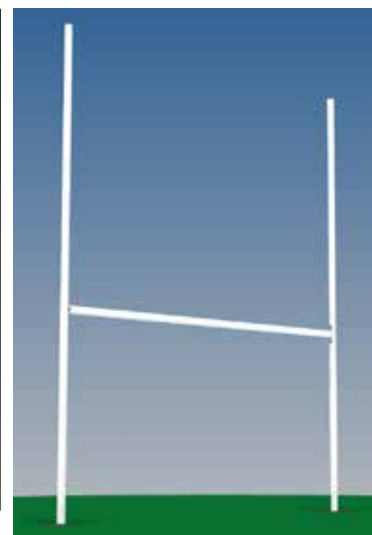
Professional steel and aluminum American football goals

Height 915 cm, projection 172 cm, clear width 564 cm, crossbar height 305 cm. Mounted in assembly sleeves. Equipped with protective pads.

97-2



Fixing the crossbar to the post



Rugby goals

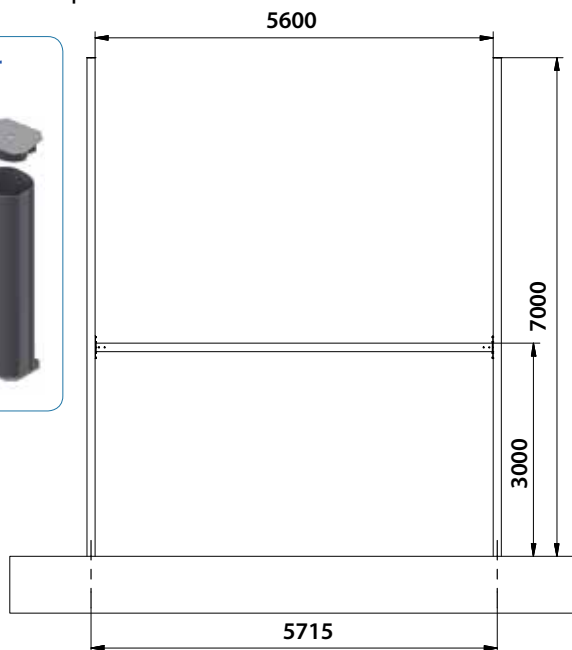
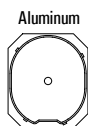
The posts and the crossbar are made of special oval aluminum profile 120x100 mm. The components are connected by a permanent hot dip galvanized steel connector. The goals are made in accordance with International Rugby Board regulations.

Parameters:

- made of oval aluminum profile 120x100 mm;
- clear width: 560 cm;
- height from the ground: 700 cm;
- crossbar height 300 cm;
- colour: white;
- mounted in steel assembly sleeves, demountable;
- single-section vertical profiles.

Assembly sleeve for oval aluminum post

Assembly sleeve for oval posts of rugby goal, made of steel, intended for outdoor use.



97-10



Universal free-standing gymnastic bar, two training fields

The posts, made of powder coated steel profiles, are inserted into the sleeves, permanently embedded in the floor. To prevent movement during exercises, and also to tighten the structure, the posts are equipped with a locking mechanism. The bar is attached to the posts using the handles at both ends of the bar and the locking screws. Height adjustment range: 80 - 250 cm (at every 10 cm). The universal freestanding (demountable) non-tension horizontal bars with two exercise fields.

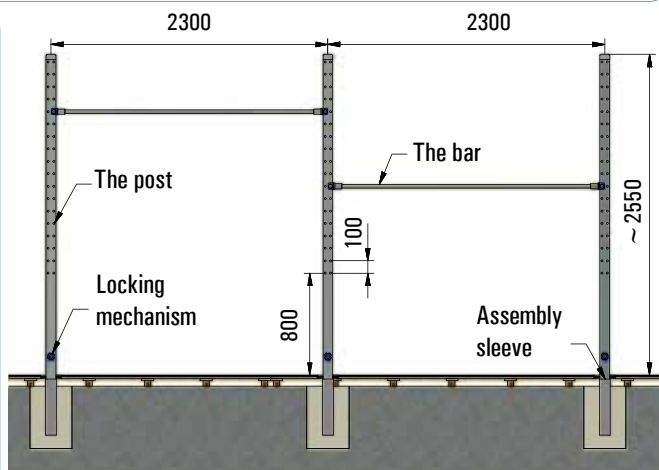
5-01



Universal freestanding gymnastic bar, one training field

The powder coated posts, made of steel profiles, are inserted into the sleeves, which are permanently embedded in the floor, and tightened by manual securing of the safety mechanism. Horizontal bar with an adjustable height in the range of 80 - 250 cm (at every 10 cm) is fastened onto mounted posts. The posts can be dismantled. The universal freestanding non-tension horizontal gymnastic bar with one exercise field.

5-01-2



Assembly sleeve for gymnastic bar

Assembly sleeve for mounting the post of gymnastic bar, made of square steel profile 90x90 mm, protected against corrosion by hot dip galvanizing.



5-01-1

Wall-mounted gymnastic bar, one training field

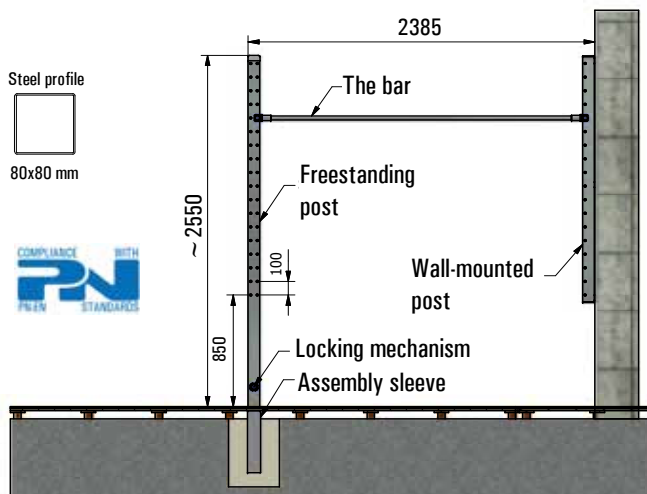
The powder coated posts are made of steel profiles. One post is inserted into the sleeve, which is permanently embedded in the floor, and tightened by manual securing of the safety mechanism. The second post is permanently mounted to the wall. Horizontal bar with an adjustable height in the range of 80 - 250 cm (at every 10 cm) is fastened onto mounted posts. The post seated in the sleeve can be dismantled. The universal freestanding non-tension horizontal gymnastic bar has one exercise area. It is possible to increase the number of exercise areas by installing additional posts and bars.

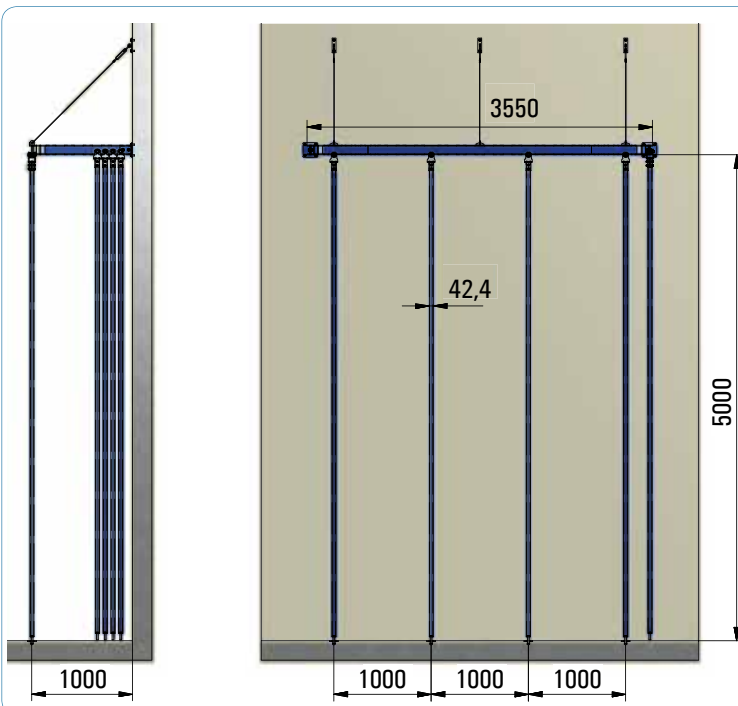


5-35

Floor plate with the masking lid

7-13





Vertical gymnastic bars

Vertical gymnastic bars for climbing on the steel structure, mounted to the wall, 5 m high. The moving mechanism, made in the form of special rail, allows for efficient folding and unfolding.

In order to stabilize during use, the bars are equipped with the floor hooks. The set includes 4 powder coated bars.

5-07

5-07-1

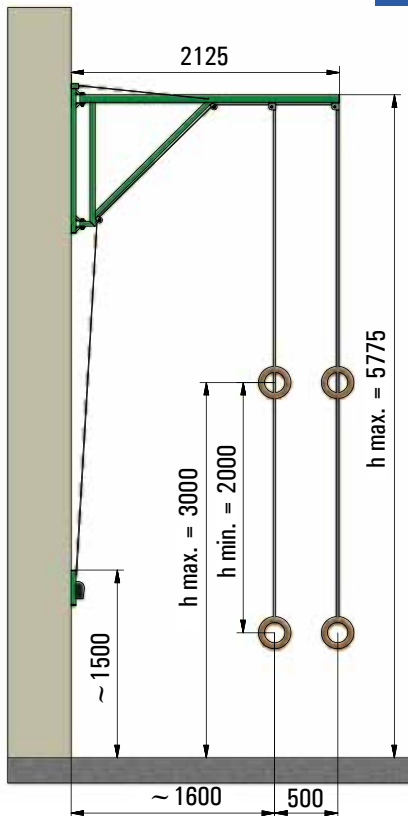
Steel gymnastic climbing bar L=6 m, for fixing on the running rail



Wall-mounted folding bracket for fixing gymnastic rings

Folding bracket for fixing gymnastic rings, mounted to the wall or to the pillar. Made of steel profiles, with innovative system of folding and unfolding and with the use of high quality locking mechanism, which ensures safety during exercises.

5-05-2



Wall-mounted bracket for fixing climbing rope

The bracket, made of steel profiles, powder coated, installed to the wall or reinforced concrete pillar.

5-05

Wall-mounted bracket for fixing rope ladder

The bracket, made of steel profiles, powder coated, is installed to the wall or reinforced concrete pillar.

5-05-1



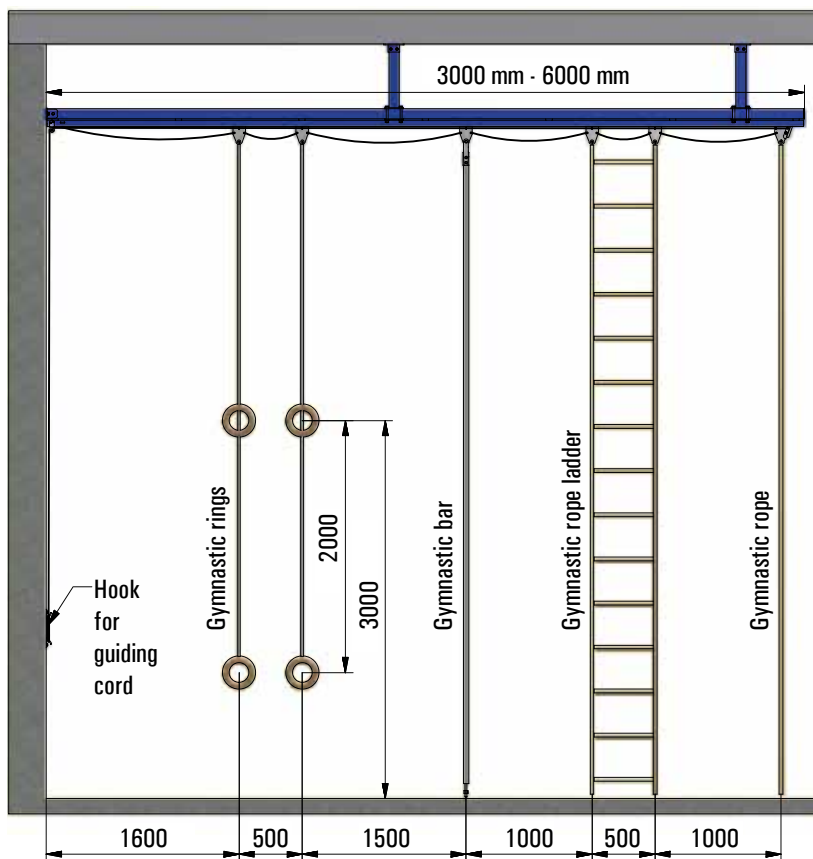


Gymnastic ropes, rings, bars and ladders suspension rail

Ceiling-mounted running rail for suspending climbing ropes, ladders, bars and gymnastics rings. A moving system made in a form of carriages moving on special rail, making both folding and unfolding very efficient. In order to unfold the system, pull the first gymnastic device towards the center of the hall; after reaching the end of the rail, the system automatically locks, ensuring safe use. To fold the system, pull back all devices, suspended on the rail, using a guiding cord, and lock the system, hooking the rope. Rail mounting system is adapted to the type of roof structure.

5-02 Ceiling-mounted running rail L = 6 m

5-02-3 Ceiling-mounted running rail L = 3 m

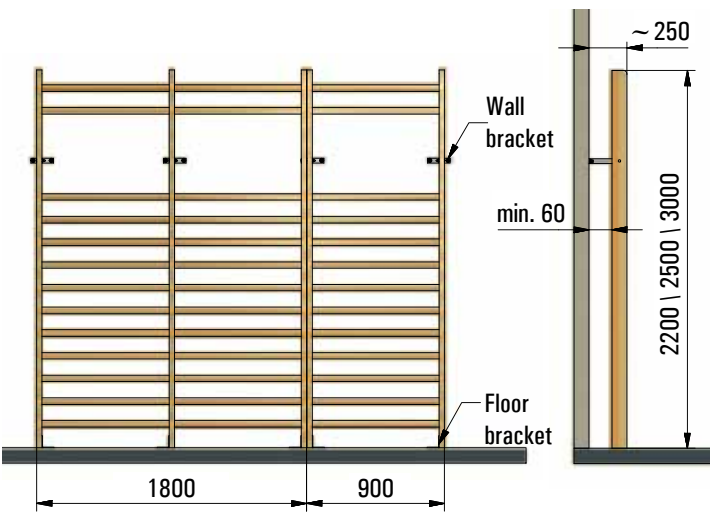


Gymnastic wall bars

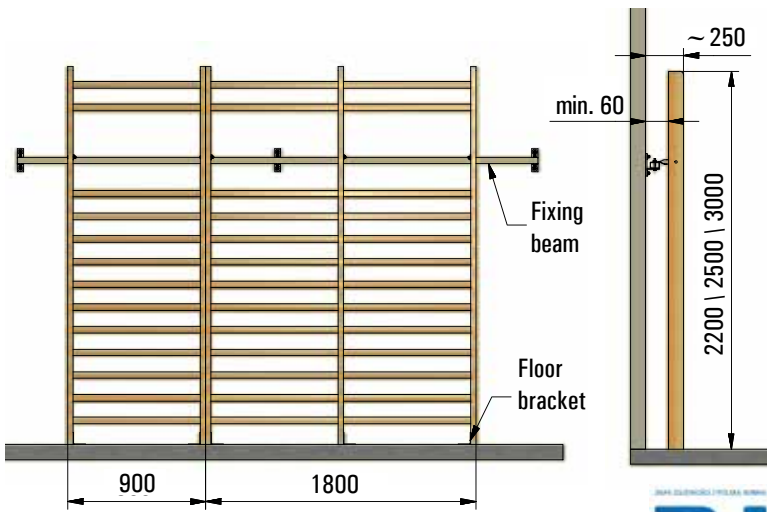
Single and double wooden wall bars, varnished, mounted to the wall. Height: 200 - 300 cm. The sides are made softwood; the rungs are made of hardwood or plywood.



Art. No.	Gymnastic wall bars
5-11	Gymnastic wall bars 90x250 cm - single training field
5-12	Gymnastic wall bars 180x250 cm - double training field
5-13	Gymnastic wall bars 90x300 cm - single training field
5-14	Gymnastic wall bars 180x300 cm - double training field
5-11-220	Gymnastic wall bars 90x220 cm - single training field
5-12-220	Gymnastic wall bars 180x220 cm - double training field



Wall bars mounted on wall brackets



Wall bars mounted on a steel beam

Fixing beam for gymnastic wall bars, made of steel profile 60x40 mm.



5-19

The bracket, fixing gymnastic wall bars to the wall.

5-56 L = 250 mm

5-56-2 L = 300 mm

5-56-3 L = 350 mm



The bracket, fixing gymnastic wall bars to the floor.

5-55



The bracket, fixing gymnastic wall bars to the steel beam.

5-54



Gymnastic mattresses



Art. No.	Gymnastic mattress, filling: polyurethane foam T25 (standard)
5-37	Gymnastic mattress 200x120x5 cm
5-38	Gymnastic mattress 200x120x10 cm
5-39	Gymnastic mattress 200x120x20 cm
5-39-22	Folding rehabilitation mattress 90x65*3x5cm

Art. No.	Gymnastic mattress, filling: polyurethane rebound foam R70 (tough)
5-37-2	Gymnastic mattress 200x120x5 cm
5-38-2	Gymnastic mattress 200x120x10 cm
5-39-2	Gymnastic mattress 200x120x20 cm

Art. No.	Gymnastic mattress, filling: polyurethane rebound foam R90 (very tough)
5-37-3	Gymnastic mattress 200x120x5 cm
5-38-3	Gymnastic mattress 200x120x10 cm
5-39-3	Gymnastic mattress 200x120x20 cm

Foldable trolley for mattresses

Foldable trolley, made of powder coated steel profiles, equipped with 6 rotation wheels, facilitates the loading, transport and storage of gymnastic mattresses. Dimensions: width 100 cm, length 200 cm, height: 120 cm. Dimensions after folding: width: 100 cm, length: 100 cm, height: 30 cm. Maximum load: 250 kg.

5-27-1



Art. No.	Accessories for gymnastic mattresses
5-85	Velcro to connect gymnastic mattresses (1 set for 1 mattress)
5-84	Handles for carrying the mattresses (1 set for 1 mattress; landing mattresses have the handles included)

Trolley for mattresses

The trolley, made of powder coated steel profiles, equipped with 4 rotation wheels. Dimensions: width 100 cm, length 200 cm, height 120 cm.

5-27



Vaulting buck with height adjustment

Body made of laminated wood, covered with the elastic lagging and natural or synthetic leather. The base is made of galvanized steel profiles, powder coated. The legs are equipped with non-skid feet for floor protection. Two legs are equipped with wheels for easy movement. Height adjustment in the range of 90 – 130 cm (optionally: 110 - 170 cm) at every 5 cm.



Art. No.	Vaulting bucks
5-36	Synthetic leather cover
5-36-1	Natural leather cover



Vaulting horse with height adjustment

Body made of laminated wood covered with the elastic lagging and natural or synthetic leather. The base, made of powder coated and galvanized steel profiles, is equipped with non-skid feet for floor protection. One of the bases is equipped with wheels for easy movement. Height adjustment in the range of 110 – 170 cm (at every 5 cm). The pommels are made of parallel-layered plywood and high-strength laminate.



Art. No.	Vaulting horses
5-43-2	Natural leather cover, with pommels
5-42-2	Natural leather cover, without pommels
5-43	Synthetic leather cover, with pommels
5-42	Synthetic leather cover, without pommels

Balance beams (3 or 5 m long)

Training (low) balance beam 3 m long or high balance beam 5 m long, with height adjustment and trolleys for transportation.



Art. No.	Balance beams
5-25	Balance beam 3 m long, low
5-28	Balance beam 5 m long, with height adjustment 80 - 120 cm and 2 trolleys for transportation

Gymnastic springboards

Training, tournament and professional springboards with a front height 15 – 21,5 cm, covered with a carpet-type cover.



Art. No.	Gymnastic springboards
5-21	Training gymnastic springboard
5-22	Tournament gymnastic springboard
5-22-1	Professional gymnastic springboard

Posture correction wall mirrors

Wall-mounted posture correction mirror is designed for individual exercises and body correction. Posture correction net, applied to the mirror plate, allows for self-control and correction of individual parts of the body.



Art. No.	Posture correction wall mirrors
5-78-1	Posture correction wall mirrors with double handrails
5-78-2	Posture correction wall mirrors without handrails

Smooth wall mirrors



Art. No.	Smooth wall mirrors
5-78	Smooth wall mirrors with double handrails
5-78-3	Smooth wall mirrors with single handrail
5-79	Smooth wall mirrors without handrails



Climbing rope ladders



Art. No.	Climbing rope ladders
5-04-1	Climbing rope ladder L=4 m
5-04-2	Climbing rope ladder L=5 m
5-04-3	Climbing rope ladder L=6 m
5-04-4	Climbing rope ladder L=7 m
5-04-5	Climbing rope ladder L=8 m
5-04-6	Climbing rope ladder L=9 m

Gymnastic rings

Gymnastic rings are made of special plywood with an inner diameter of 180 mm and circular profile with the diameter of 28 mm. Standard set includes certified sling straps 800 mm long and rotating system (swivel and carabiner with protection). The rings can be installed on a constant height or with height adjustment.

The length of the sling: 80 cm. The length with the ring: 98 cm.



5-06

Tripartite gymnastic lattice ladder

Made of wood, varnished, mounted to the wall. Three training fields. The height: 5 m.

5-57

Tripartite gymnastic lattice ladder, H=5 m, with mounting structure and electric drive for lifting and lowering lattice.

5-57-2



Climbing ropes



Art. No.	Climbing ropes
5-03-1	Climbing rope L=4 m
5-03-2	Climbing rope L=5 m
5-03-3	Climbing rope L=6 m
5-03-4	Climbing rope L=7 m
5-03-5	Climbing rope L=8 m
5-03-6	Climbing rope L=9 m

5-sectional vaulting box

The vaulting box consists of five wooden sections. The top section is covered with natural or synthetic leather. Device available with the trolley, enabling and facilitating transport.



Art. No.	5-sectional vaulting box
5-23	5-sectional vaulting box, covered with synthetic leather, with the trolley
5-24	5-sectional vaulting box, covered with synthetic leather
5-58	5-sectional vaulting box, covered with natural leather, with the trolley
5-59	5-sectional vaulting box, covered with natural leather

One-piece vaulting box



One-piece vaulting box, made of wood, top part covered with synthetic or natural leather.



Art. No.	One-piece vaulting box
5-59-1	One-piece vaulting box, covered with synthetic leather
5-59-4	One-piece vaulting box, covered with natural leather

Gymnastic benches

Made of knotless softwood or hardwood. The bench has a stationary or foldable catch, enabling its suspension on a gymnastic wall bars, bar or box. When the bench is inverted, the 10 cm wide beam can be used as a balance beam. Height: 30 cm. Available lengths: 2 m; 2,5 m; 3 m; 4 m. Wooden or metal legs are equipped with plastic feet for floor protection.



Art. No.	Gymnastic benches with wooden legs
5-15-1	Gymnastic bench – length 2 m, wooden legs
5-18-1	Gymnastic bench – length 2,5 m, wooden legs
5-16-1	Gymnastic bench – length 3 m, wooden legs
5-17-1	Gymnastic bench – length 4 m, wooden legs

Art. No.	Gymnastic benches with metal legs
5-15	Gymnastic bench – length 2 m, metal legs
5-18	Gymnastic bench – length 2,5 m, metal legs
5-16	Gymnastic bench – length 3 m, metal legs
5-17	Gymnastic bench – length 4 m, metal legs



The bar fitted on gymnastic wall bars

The training bar with a diameter of 30 mm. Movable arms enable the regulation of the height and the distances of the bar from the wall bars. Maximum load of the exerciser: 120 kg.



5-50



Overlap for gymnastic wall bars

Overlap used for posture correction exercises, mainly in combination with a pillow, mounted on a gymnastic wall bars. The bar is made of plywood, the sides are made of wood or metal. The overlap can be mounted on the wall bars at any height.



5-50-2

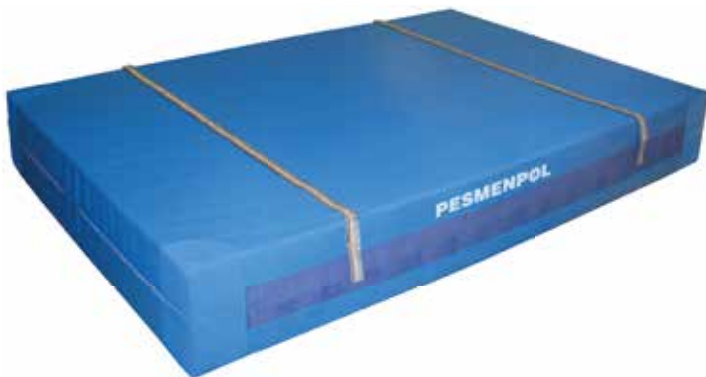


Pillow for gymnastic wall bars

Bottom part is made of plywood. The padding is covered with synthetic leather. Equipped with metal handles for hanging on the wall bars. The device is particularly useful for stretching the pectoral muscles with a round-back disease and Scheuermann's disease.

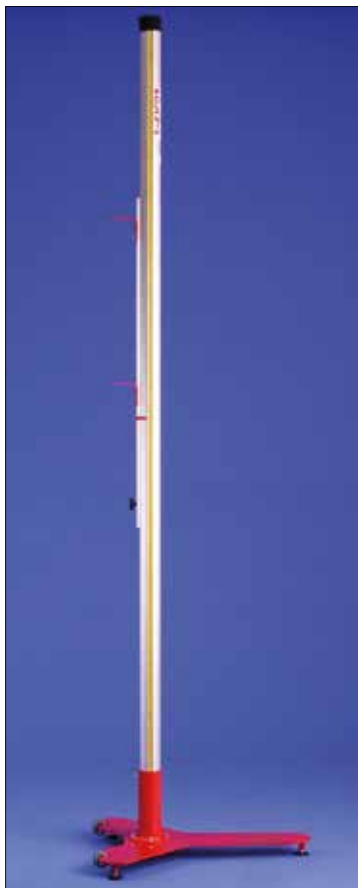
5-50-3





Landing mattresses

Art. No.	Landing mattresses
5-33	Landing mattress 300x200x40 cm
5-33-5	Landing mattress 300x200x45 cm
5-33-2	Landing mattress 300x200x50 cm
5-33-1	Quilt for landing mattress 300x200x5 cm
5-33-3	Quilt for landing mattress 300x400x5 cm (for 2 mattresses 300x200 cm)



High jump stands

Art. No.	High jump stands
5-26-3	School high jump stand
5-26-6	Universal aluminum high jump stand, from 75 cm to 250 cm, designed for training and for competitions, steel T-shaped base, IAAF certificate
5-26-4	Professional telescopic aluminum high jump stand, height adjustment using a crank, IAAF certificate
5-26-7	School high jump stand, aluminum with a round base, from 70 cm to 200 cm, designed for schools
5-26-8	School high jump stand, aluminum with T-shaped base, from 75 cm to 230 cm, designed for schools



Crossbars for high jump

Art. No.	Crossbars for high jump
5-26-1	Aluminum crossbar for high jump
5-26-2	High-performance crossbar for high jump – made of fiberglass, IAAF certificate
5-26-5	Training crossbar for high jump – made of fiberglass



Training hurdles

The construction, made of steel pipes and profiles and aluminum telescopic tubes, guarantees a long service. Hurdles meet IAAF requirements.

Art. No.	Training hurdles
12-04-1	Steel and aluminum foldable training hurdle, with height adjustment in the range of 686 - 1067 mm
12-04-2	Steel and aluminum foldable training hurdle, with height adjustment in the range of 600 - 914 mm
12-04-3	Steel and aluminum foldable training hurdle, with height adjustment in the range of 500 - 762 mm

Training hurdles Pesmenpol

Aluminum and steel bended training hurdle, designed for the use of school children and students. Steel base (weight approx. 4.4 kg), made of pipes, bent at an angle of 90 degrees and connected with the crossbar. Steel loads, which allow a safe return of the hurdle to the starting position after tilting, are placed in the bases. Telescopic aluminum pipes with the locking height adjustment system. Aesthetic and durable finishing by powder coating (in red and blue).

Art. No.	Training hurdles
12-100	Aluminum and steel bended training hurdle, with height adjustment in the range of 600 - 914 mm
12-101	Aluminum and steel bended training hurdle, with height adjustment in the range of 686 - 1067 mm

Board for shot put

Training board for shot put, made of fiberglass, colour: white.

12-1038



Circle for shot put

Four hot dip galvanized steel elements, screwed together by 8 screws; IAAF certified.

12-1223



Aluminum circle for discus throw

Made of special aluminum profile. Inner diameter of the circle: 2500 mm.

12-29

Take-off board for long jump

Made of epoxy resin, with the overlay to take-off, made of water-proof plywood, and with wooden slat with double-sided groove for plasticine. The board can be embedded directly in the ground or in a special box.

12-21



Take-off board box cover

The cover is made of galvanized steel sheet, closing the box after removing the board. The top of the cover can be lined with artificial surface (the same as on the run-up).

12-24



Take-off board box

Made of galvanized steel sheet, mounted permanently in the run-up.

12-23



Reducing insert for the discus throw circle

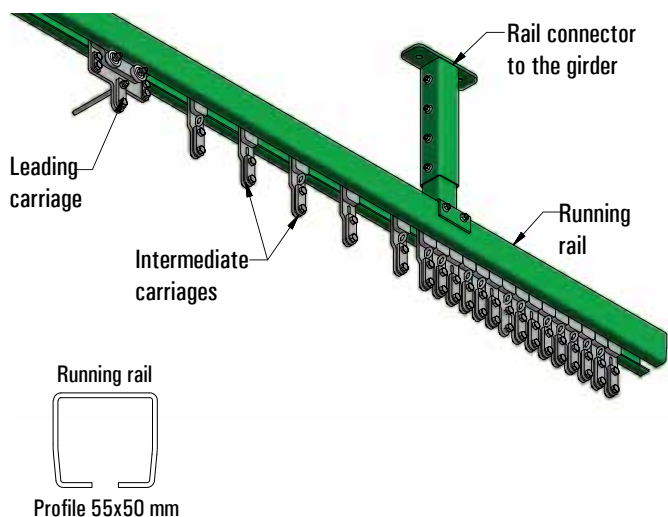
Made of waterproof plywood, lacquered in white, consists of four parts. The insert reduces the diameter of the circle to the size required for the hammer throw (to 2135 mm).

12-28





System for fixing and horizontal sliding of the curtain operated manually



Sliding down the curtain



Construction for fixing and horizontal sliding of the curtain operated manually

Universal system for fixing and sliding the curtain is equipped with a rail and a set of sliding carriages for curtain fabric attachment. The length of the rails and adaptive elements of the structure are individually designed, based on the general design of the hall and the results of detailed measurements for a particular sports facility.

Dividing curtains are available in several variants: curtains made of non-transparent fabric, curtains made of semi-transparent fabric and curtains in combination: fabric up to 3 m high + a net above. The height of the curtain is adjusted in such a way that, when attached to the guide carriages, the lower edge of the fabric remains slightly above the floor level.

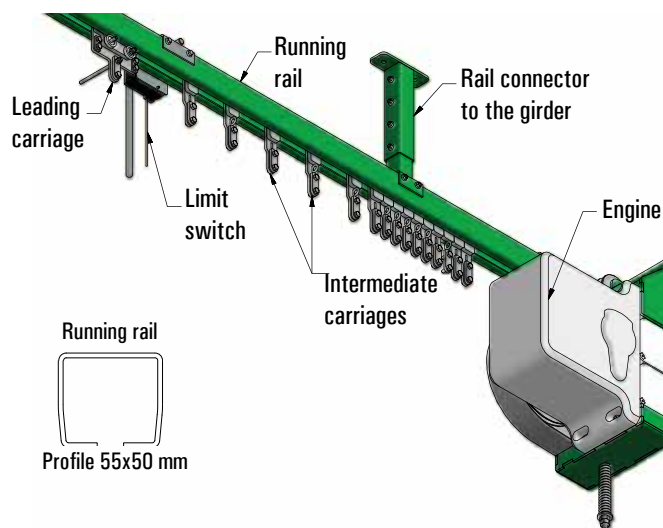
6-01

Curtain slid down





System for fixing and horizontal sliding of the curtain with electric drive



Construction for fixing and horizontal sliding of the curtain with electric drive

Universal system for fixing and sliding the curtain is equipped with a rail and a set of sliding carriages for curtain fabric attachment. The length of the rails and adaptive elements of the structure are individually designed, based on the general design of the hall and the results of detailed measurements for a particular sports facility.

Dividing curtains are available in several variants: curtains made of non-transparent fabric, curtains made of semi-transparent fabric and curtains in combination: fabric up to 3 m high + a net above. The height of the curtain is adjusted in such a way that, when attached to the guide carriages, the lower edge of the fabric remains slightly above the floor level.

There are two ways to operate the engine that drives the curtain sliding system. The first way is to use the control button installed on the hall wall (by pressing the unipolar button). The second way is to control the sliding process using remote control. The use of variable coding of remote control makes the system inaccessible to unauthorized persons. One remote can control up to four sets of dividing curtains.

6-02





Construction for vertical lifting and lowering of the curtain with electric drive

Universal roller set with drive mechanism, installed in the ceiling part of the building structure. Vertically lifts and lowers the curtain fabric, installed to divide the sports facility into sectors or serve as protective nets (ball catchers) on the walls. After folding, the curtain is placed parallel to the ceiling (this is important in the case of arc halls).

The curtain material is raised and lowered with the use of wire ropes, wound on the electric motor drum (230V, P=410W). Curtains are individually designed, to fit the structure to the existing conditions and dimensions of the sports facility.

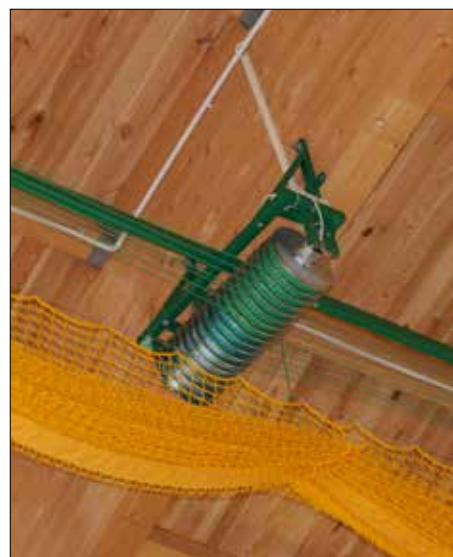
There are two ways to operate the engine, that drives the curtain lifting and lowering system. The first way is to use the control button installed on the hall wall (by pressing the unipolar button). The second way is to control the lifting / lowering process using remote control. The use of variable coding of remote control makes the system inaccessible to unauthorized persons. One remote can control up to four sets of dividing curtains.

6-03



Photo: courtesy of Moris-Polska

Electric motor drum for lifting/lowering curtain fabric





Sound-absorbent dividing curtains Rantzows

Sound-absorbent single- or double-layer curtain, dividing the sports hall into two (or more) sectors. Suitable for all kinds of sports halls, where there is a need for division and sound insulation.

Washable and fire resistant PVC fabric with high tear strength. With hidden rivets and seams, the design eliminates the risk of injury of users and damage to very material.

Lifting of the curtain material is carried out with a construction motor and straps, sewn into the curtain material (on the inside). The engine is controlled by a wall-mounted control button. The engine is equipped with an emergency device, that stops work in case of power or structural problems.

Curtains are individually designed.
Standard colours of curtain material: gray, beige.

Technical specification

Curtain material: reinforced PVC material
PVC basis weight: 2000 gr/m² - 1200 gr/m² - 680 gr/m²
Total weight: 5 kg/m² - 3 kg/m² - 1,7 kg/m²

Optionally: door, lower profile, cutout for tribune, soundproof package.
Fire resistance according to standards: DIN 4102 B2, SIS 650082

Sound reduction: 30dB* (approximate value, depending on the environmental conditions existing in the sports facility).



6-1150 Single-layer dividing curtain, made of PVC 680 gr/m²

6-1151 Sound-absorbent double-layer dividing curtain, made of PVC 680 gr/m²

6-06

System for vertical lifting and lowering of the sound-absorbent double-layer dividing curtain with electric drive

Dividing curtain, semi-transparent polyethylene material

6-09



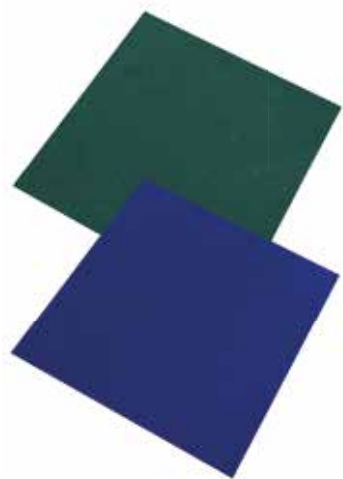
Available colours:

- Dark green
- Terracotta
- Cream
- Green
- Silver
- Blue
- Orange



Dividing curtain, non-transparent fabric

6-08



Available colours:

- Green
- Blue
- Black
- Red
- Gray



Dividing curtain „fabric + net”

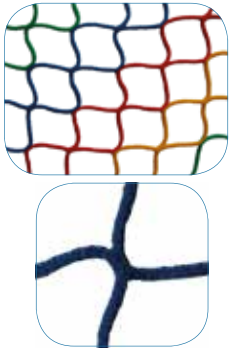
Non-transparent or semi-transparent fabric to a height of 3,0 m, above: the net with a mesh of 10x10 cm. Colour according to available colours of fabrics and nets.

6-12



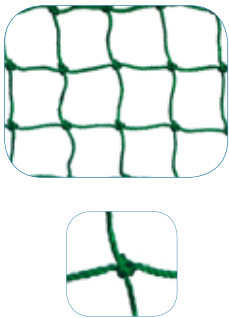


Polypropylene protective nets (soft, knotless)



Art. No.	Polypropylene protective nets	Mesh [mm]	Thickness
6-13-4	Polypropylene (PP) protective net, available colours: blue, green, yellow, red, white, gray	50x50	3 mm
6-13-5	Polypropylene (PP) protective net, available colours: blue, green, yellow, red, white	100x100	3 mm
6-13-6	Polypropylene (PP) protective net, available colours: blue, green, yellow, red, white	50x50	4 mm
6-13-7	Polypropylene (PP) protective net, available colours: blue, green, yellow, red, white, gray	100x100	4 mm
6-14-1	Polypropylene (PP) protective net, available colours: green, white, blue, yellow, red, black	45x45	3 mm
6-14-50	Polypropylene (PP) protective net, available colours: green, blue, red	45x45	5 mm
6-16-1	Polypropylene (PP) protective net, available colours: green, blue	120x120	3 mm
6-16-40	Polypropylene (PP) protective net, colour: green	120x120	4 mm
6-13-50	Polypropylene (PP) protective net, colour: green	100x100	5 mm

Polyethylene protective nets (hard, knotted)



Art. No.	Polyethylene protective nets	Mesh [mm]	Thickness
6-16-2	Polyethylene (PE) protective net, available colours: blue, dark green, green, yellow, red, white, black	50x50	3 mm
6-16-3	Polyethylene (PE) protective net, available colours: blue, dark green, green, yellow, red, white, black	100x100	3 mm
6-13-2	Polyethylene (PE) protective net, colour: green	50x50	4 mm
6-13-3	Polyethylene (PE) protective net, available colours: blue, green, yellow, red, white	100x100	4 mm



The bracket for protective net

Made of steel profile 40x40 mm, powder coated

6-20



Teflon carabiners

6-22

The set of elements for mounting protective nets to windows (up to 100 m²)



6-21

Loosely hanging protective net (backstop)



Using loosely hanging net, consider the need to wrinkle it by about 15-20%

Protective net on the window (tight)





Set of elements for the installation of protective nets on outdoor playgrounds

Protective net fixing posts, made of steel or aluminum (standard or ribbed) square profile 80x80x2 mm, mounted in assembly sleeves.

Outermost and corner posts are mounted at a spacing of 3 m, others posts are fixed at max. spacing of 6 m.

The maximum height of the posts is 6 m (only for special order - up to 8 m).

Steel posts are powder coated or hot dip galvanized; aluminum posts are anodized (and can be also powder coated). Assembly sleeves are made of steel sheets 4 mm thick, bent in a special shape, fitted to the posts.

The set includes:

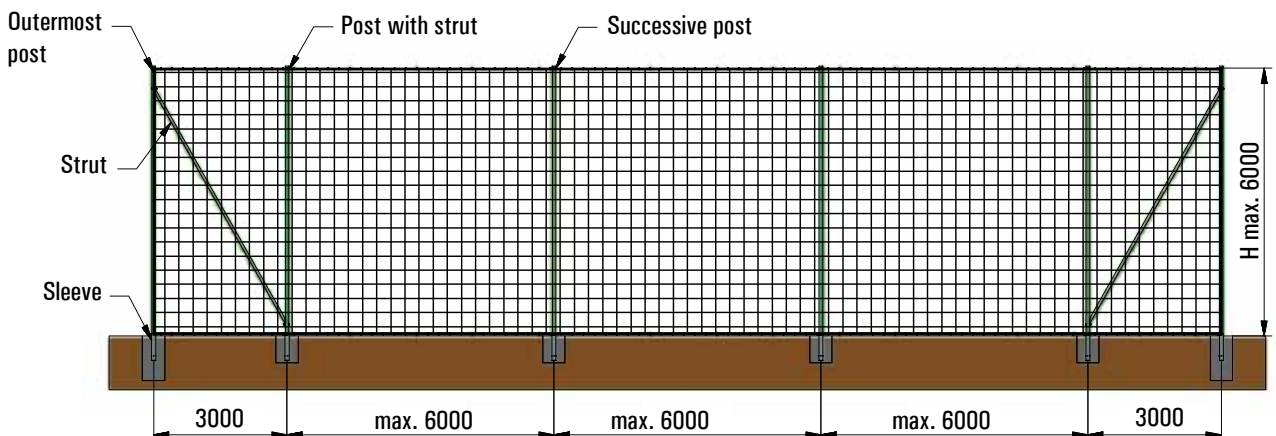
- steel or aluminum posts (square profile 80x80x2 mm),
- assembly sleeves, embedded in concrete foundation,
- struts with fixing plates, connecting the outermost posts,
- the set of fixing elements (including: ropes, turnbuckles and Teflon carabiners),
- nets (according to the list of polyethylene and polypropylene protective nets).

6-42 Steel wicket for protection sets (outdoor)

6-44 Steel gate for protection sets nets (outdoor)

Art. No.	Protective net fixing posts
6-30	Steel post (profile 80x80x2 mm) for fixing protective nets outdoor, powder coated in green (RAL 6005) or hot dip galvanized, up to 4 m high (assembly sleeve included)
6-31	Steel post (profile 80x80x2 mm) for fixing protective nets outdoor, powder coated in green (RAL 6005) or hot dip galvanized, 4,5 m - 6 m high (assembly sleeve included)
6-40	Aluminum post (profile 80x80x2 mm) for fixing protective nets outdoor, up to 4 m high (assembly sleeve included)
6-41	Aluminum post (profile 80x80x2 mm) for fixing protective nets outdoor, 4,5 m - 6 m high (assembly sleeve included)
6-40Z	Reinforced ribbed aluminum post (profile 80x80x2 mm with additional ribs) for fixing protective nets outdoor, up to 4 m high (assembly sleeve included)
6-41Z	Reinforced ribbed aluminum post (profile 80x80x2 mm with additional ribs) for fixing protective nets outdoor, 4,5 m - 6 m high (assembly sleeve included)

We carry out individual fencing projects, including wickets and gates



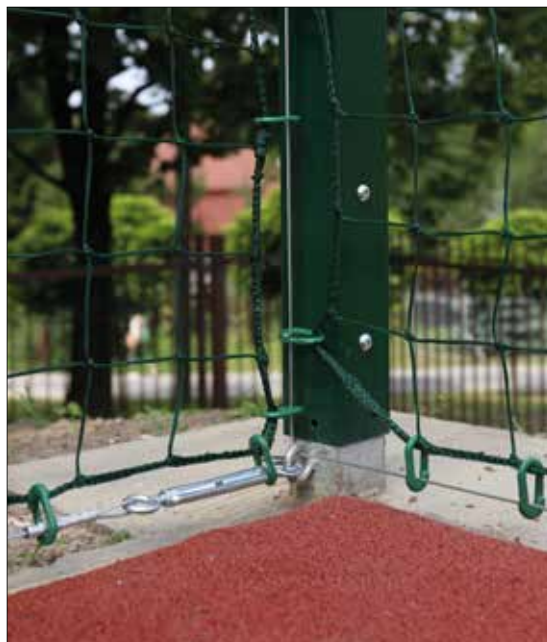
The set of elements for mounting protective nets (up to 100 m²)

6-21



Assembly sleeve

6-33



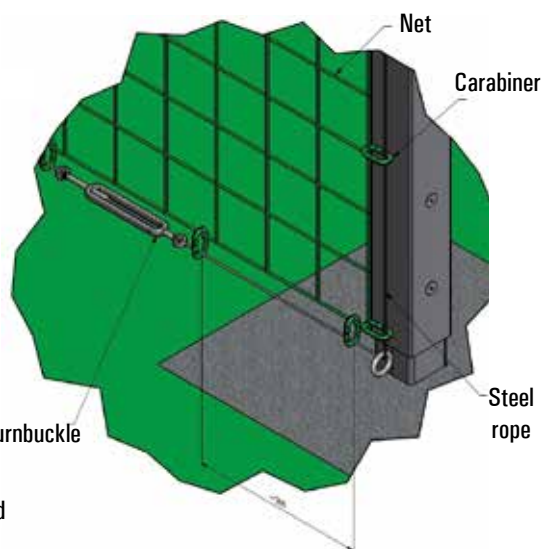
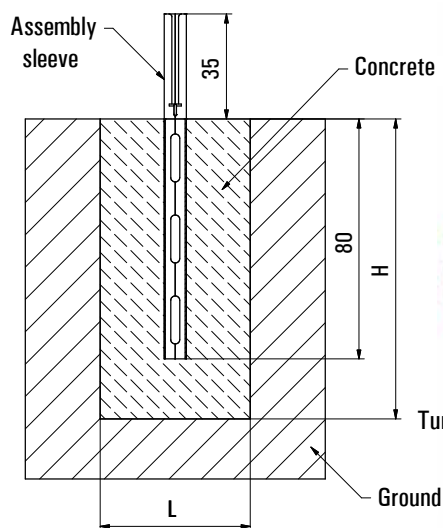
Steel posts
Standard profile
80x80 mm



Aluminum posts
Standard profile
80x80 mm



Aluminum posts
Reinforced ribbed
aluminum profile
80x80 mm





Steel fence between the posts of protection set



Strut



Protection set connecting two heights of the net



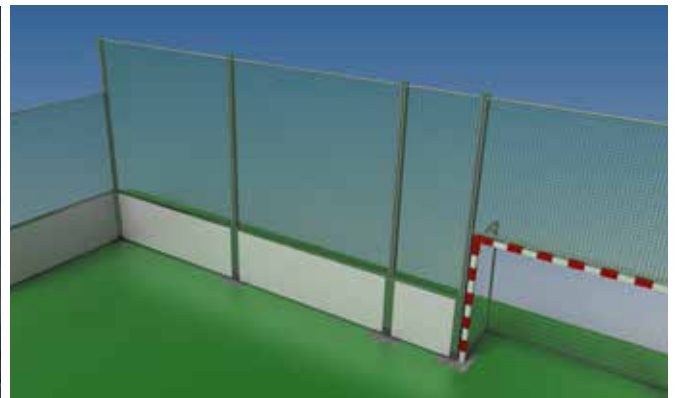
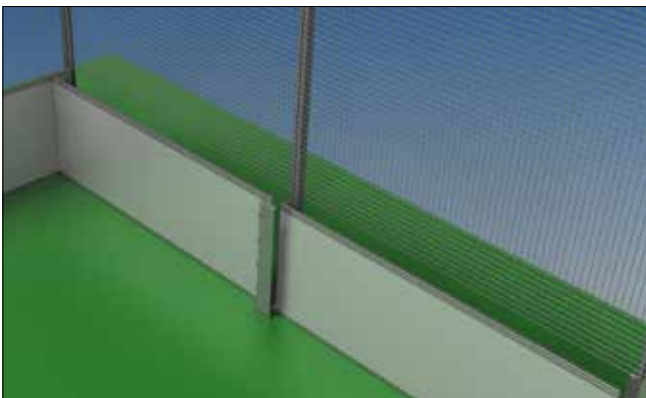
Combination of boundary boards and protection set

Easy Arena system

Boundary boards 105 cm high, with protective nets up to 4,0 m or 6,0 m. The posts made of aluminum system profiles 80x80 mm, 4 m or 6 m high, assembled to the system adapters installed in foundations. Boundary boards made of panels of colorless cellular polycarbonate 32 mm thick, fixed to the posts using clamps made of bended steel sheets. Knotless polypropylene protective net (rope 3 mm, mesh 100x100 mm); the edge of the net fixed inside, using plastic clips, on the top and bottom in special steel profile 30x30 mm, on the sides in grooves in the profiles of aluminum posts. Powder coated aluminum posts (RAL 6005), all steel elements hot dip galvanized.

20-6 PESMENPOL EASY ARENA system, H=4 m

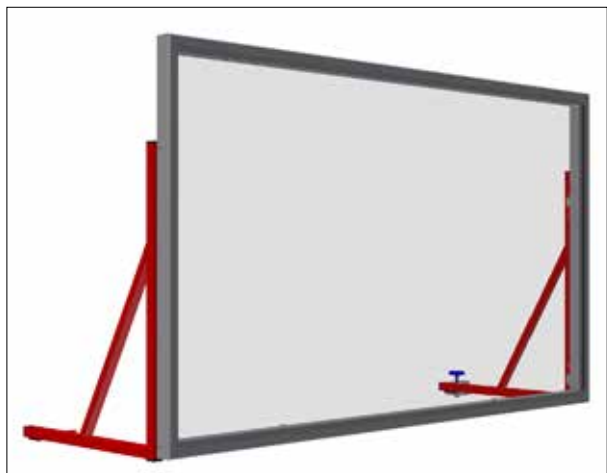
20-6-2 PESMENPOL EASY ARENA system, H=6 m



Transparent acrylic boundary boards

Made of impact resistant acrylic glass on the steel structure, fixed to the ground using installation plates or in the sleeves. Demountable, easy to transport and store. Designed for sports halls. Dimensions of single element: height $H = 1,05$ m, length $L = 1,8$ m.

20-2



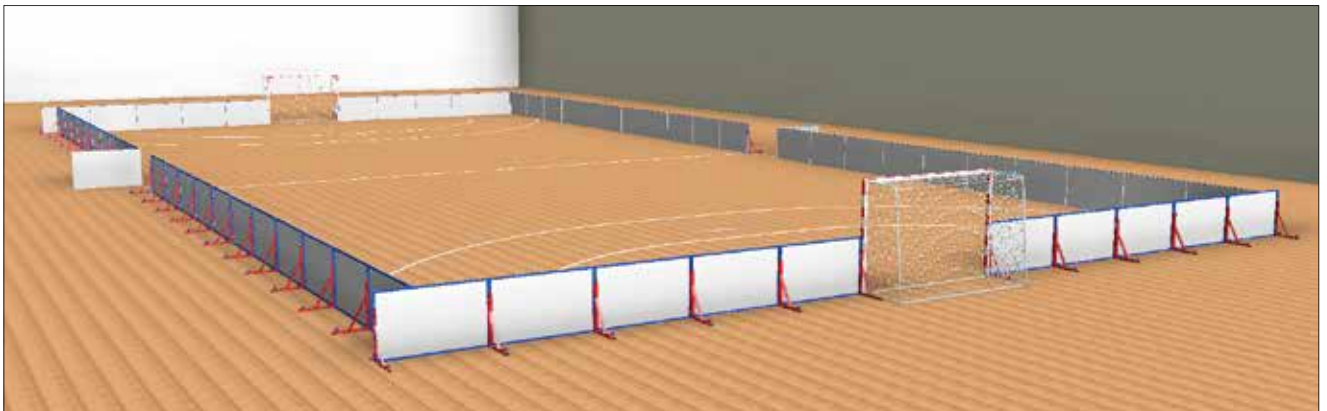
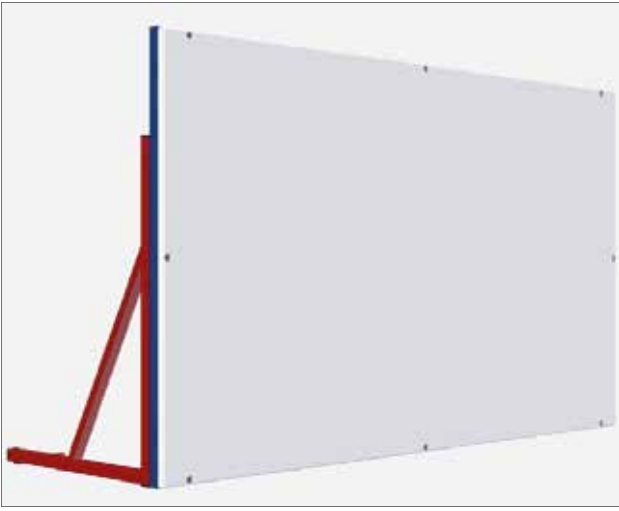
Boundary boards mounted in the sleeves



White epoxy boundary boards

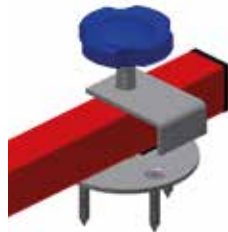
Made of impact resistant epoxy board on the steel structure, fixed to the ground using installation plates or in the sleeves. Demountable, easy to transport and store. Designed for sports halls. Dimensions of single element: height H = 1,05 m, length L = 1,8 m.

20-1



Installation plate

Installation plate for fixing demountable boundary board to the floor.



20-4

Assembly sleeve for boundary board

Intended for mounting the post of boundary board. Hot dip galvanized.



20-3

Floor plate with the masking lid

Designed for installation in the floor of the sports halls. Secures the sleeves after removing the posts. The lid, made of plywood, mounted on a hot-dip galvanized steel frame, screwed to the floor. The magnetic system of stabilizing the lid, preventing from falling by 6 pieces of magnets.



7-13



Wireless sports scoreboard

DIMENSIONS: 130x100x10 cm

CONTROL: wireless (remote control)

PARAMETERS ON DISPLAY:

- Clock – real time or game time,
- 2 separate 24 sec. clocks,
- Game score 0 – 199,
- Sets score / penalties 0 – 9,
- Game part number 0 – 9;

SIZE OF DIGITS: 125 mm

SOUND SIGNAL:

- Set in any desired configuration

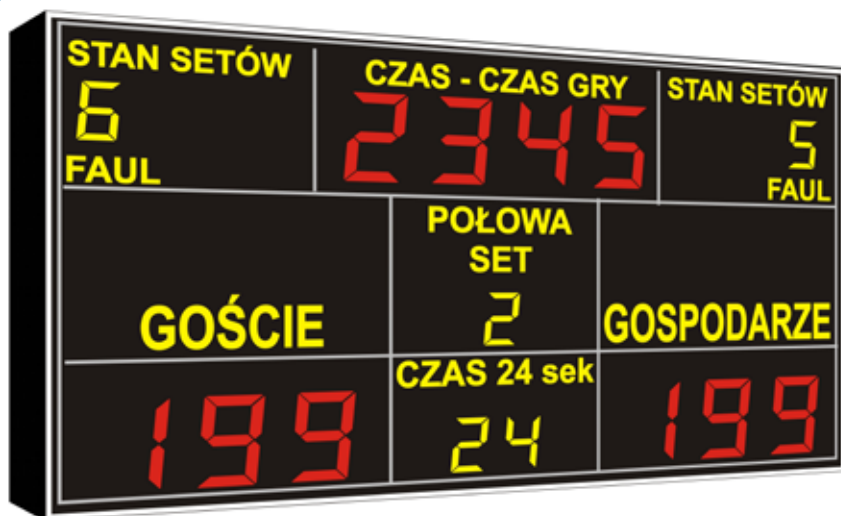
VISIBILITY: up to 40 m

POWER SUPPLY: 230V / 50Hz

WEIGHT: 25 kg



ETW 130-10



ETW 220-130

Wireless sports scoreboard

DIMENSIONS: 220x125x10 cm

CONTROL: wireless (remote control)

PARAMETERS ON DISPLAY:

- Clock – real time or game time,
- 24 sec. clock,
- Game score 0 – 199,
- Sets score / penalties 0 – 9,
- Game part number 0 – 9;

SIZE OF DIGITS: 125 mm and 220 mm

SOUND SIGNAL:

- Set in any desired configuration

VISIBILITY: up to 40 m

POWER SUPPLY: 230V / 50Hz

WEIGHT: 50 kg



Sports scoreboard [dimensions]		Real time or game time	Game score	Sets score/penalties 0 - 9	Game part number 0 - 9	Integrated 24 sec. clock	2 separate 24 sec. clocks	Visibility up to [m]	Weight [kg]
ETW 90-10	[90x50x10 cm]	x	x					30	20
ETW 105-200	[105x80x100 cm]	x	x					30	25
ETW 105-201	[105x80x10 cm]	x	x	x	x			30	25
ETW 105-202	[105x80x10 cm]	x	x	x	x	x		30	25
ETW 105-203	[105x80x10 cm]	x	x	x	x		x	30	25
ETW 130-10	[130x100x10 cm]	x	x	x	x			40	25
ETW 130-30	[130x100x10 cm]	x	x	x	x	x		40	25
ETW 130-60	[130x100x10 cm]	x	x	x	x		x	40	25
ETW 155-301	[155x105x10 cm]	x	x	x	x			50	25
ETW 155-302	[155x105x10 cm]	x	x	x	x	x		50	25
ETW 155-303	[155x105x10 cm]	x	x	x	x		x	50	25
ETW 220-110	[220x125x10 cm]	x	x	x	x			60	40
ETW 220-130	[220x125x10 cm]	x	x	x	x	x		60	40
ETW 220-160	[220x125x10 cm]	x	x	x	x		x	60	40



24 sec. clock

DIMENSIONS: 50x40x7,5 cm

CONTROL: wired (control panel)

PARAMETERS ON DISPLAY:

- 24 sec. time,

- Game time;

SIZE OF DIGITS: 125 mm - 220 mm

VISIBILITY: up to 60 m

POWER SUPPLY: 230V / 50Hz

WEIGHT: 5 kg

Aquatics scoreboard



VISIBILITY:
up to 75 m

POWER
SUPPLY:
230V / 50Hz

WEIGHT:
80 kg

TB-1

CONTROL:

Wired;

Text inserted using keyboard:

- Swimming style

- 6 fields displaying times of swimmers;

Information aquatics scoreboard



VISIBILITY:
up to 100 m

POWER
SUPPLY:
230V / 50Hz

TBI-1

CONTROL:

Wired;

Text inserted using keyboard;

PARAMETERS ON DISPLAY:

Date / time, temperature outside and inside the pool (sports, recreational and paddling pool)

Art. No.	Length	Quantity of digits	Size of digits
ETW T130	130 cm	18	10 cm
ETW T150	150 cm	18	10 cm
ETW T205	205 cm	16	15 cm
ETW T220	220 cm	16	15 cm
ETW T240	240 cm	19	15 cm
ETW T280	280 cm	22	15 cm
ETW T320	320 cm	24	15 cm

Texts lines

Text line made in LED technology, designed to display any programmed text - static or dynamic (scroll).



Professional sports scoreboard

DIMENSIONS: 130x100x10 cm

CONTROL: wired (control panel)

PARAMETERS ON DISPLAY:

- Real time or game time,
- 2 separate clocks 24 sec,
- Game score 0 – 199
- Sets score / penalties 0 – 9,
- Game part number 0 – 9;

SIZE OF DIGITS: 125 mm and 220 mm

SOUND SIGNAL

- Set in any desired configuration

VISIBILITY: up to 40 m

POWER SUPPLY: 230V / 50Hz

WEIGHT: 25 kg



ETW 130-60 PRO



Professional sports scoreboard

DIMENSIONS: 320x125x10 cm

CONTROL: wired (control panel)

SIZE OF DIGITS: 125 mm and 220 mm

SOUND SIGNAL:

Set in any desired configuration

VISIBILITY: up to 60 m

POWER SUPPLY: 230V / 50Hz

WEIGHT: 70 kg

PARAMETERS ON DISPLAY:

- Real time or game time,
- 2 separate clocks 24 sec,
- Game score 0 – 199,
- Sets score/penalties 0 – 9,
- Set/part number 0 – 9,
- Break time, time out, serve,
- Individual penalties of players;



ETW 320-180 PRO



Professional sports scoreboard

DIMENSIONS: 320x220x10 cm

CONTROL: wired (control panel)

SIZE OF DIGITS: 125 mm and 220 mm

SOUND SIGNAL:

Set in any desired configuration

VISIBILITY: up to 60 m

POWER SUPPLY: 230V / 50Hz

WEIGHT: 100 kg

PARAMETERS ON DISPLAY:

- Real time or game time,
- 2 separate 24 sec. clocks,
- Game score 0 – 199,
- Set/part number 0 – 9,
- Sets score / penalties 0 – 9,
- Break time,
- Time out,
- Serve,
- Individual penalties of players;



ETW 320-200 PRO



Professional sports scoreboard

DIMENSIONS: 500x240x10 cm
CONTROL: wired (control panel)
SIZE OF DIGITS: 125
SOUND SIGNAL:
 Set in any desired configuration
VISIBILITY: up to 150 m
POWER SUPPLY: 230V / 50Hz
WEIGHT: 100 kg

PARAMETERS ON DISPLAY:

- Real time or game time,
- 2 separate clocks 24 sec.
- Game score 0 – 199
- Set / part number 0 – 9,
- Sets score / penalties 0 - 9
- Penalties / sets,
- Break time,
- Time out,
- Serve,
- Individual penalties of players
- Name of team - 22 digits,
- Double-digit numbers of players;



ETW 500-500 PRO



Professional sports scoreboard

DIMENSIONS: 700x240x10 cm
CONTROL: wired (control panel)
SIZE OF DIGITS: 125 – 300 mm
SOUND SIGNAL:
 Set in any desired configuration
VISIBILITY: up to 150 m
POWER SUPPLY: 230V / 50Hz
WEIGHT: 100 kg

PARAMETERS ON DISPLAY:

- Real time or game time,
- 2 separate clocks 24 sec.,
- Game score 0 – 199, Set / part number 0 - 9
- Sets score / penalties 0 - 9, Penalties / sets
- Break time, Time out, Serve,
- Individual penalties of players,
- Name of team - 22 digits,
- Double-digit numbers of players + names of players and points scored by players



ETW 700-550 PRO



Sports scoreboard [dimensions]	Real time or game time	Game score	Sets score/ penalties 0 - 9	Game part number 0 - 9	Integrated 24 sec. clock	2 separate 24 sec. clocks	Sets score or time of penalties	Individual penalties of players	Visibility up to [m]	Weight [kg]
ETW 130-60 PRO [130x100x10 cm]	x	x	x	x		x			40	25
ETW 150-10 K PRO [150x120x10 cm]	x	x	x	x			x	x	60	25
ETW 220-110 PRO [220x110x10 cm]	x	x	x	x					60	40
ETW 220-130 PRO [220x110x10 cm]	x	x	x	x	x				60	40
ETW 220-160 PRO [220x110x10 cm]	x	x	x	x		x		x	60	40
ETW 240-80 PRO [240x100x10 cm]	x	x	x	x		x		x	60	45
ETW 320-180 PRO [320x125x10 cm]	x	x	x	x		x	x	x	60	70
ETW 320-200 PRO [320x220x10 cm]	x	x	x	x		x	x	x	110	100
ETW 500-500 PRO [500x240x10 cm]	x	x	x	x		x	x	x	150	100
ETW 700-550 PRO [700x240x10 cm]	x	x	x	x		x	x	x	150	100



Electronic scoreboard for outdoor playfields

DIMENSIONS: 250x160x10 cm

CONTROL: wireless (remote control)

PARAMETERS ON DISPLAY:

- Real time or game time,
- Game score 0 – 9;

SIZE OF DIGITS: 305 mm

VISIBILITY: approx. 150 m

ZTW 250-43



Electronic scoreboard for outdoor playfields

DIMENSIONS: 470x250x10 cm

CONTROL: wireless (remote control)

PARAMETERS ON DISPLAY:

- Real time or game time,
- Game score 0 – 99;

SIZE OF DIGITS: 600 mm

VISIBILITY: approx. 250 m

ZTW 470-426



Freestanding scoreboard for outdoor sports fields - type ORLIK

CONTROL: wireless (remote control)

PARAMETERS ON DISPLAY:

Real time or game time

Game score 0 – 99

POWER SUPPLY: 230V / 50Hz

SOUND SIGNAL

Freestanding, portable structure

Art. No.	Dimensions [cm]	Size of digits [mm]	Visibility up to [m]
ZTW 1 ORLIK	100x75x10	125	70
ZTW 2 ORLIK	100x75x10	125 and 220	100
ZTW 3 ORLIK	130x100x10	220 and 305	150

Electronic scoreboard for outdoor playfields

DIMENSIONS: 250x160x10 cm

CONTROL: wireless (remote control)

PARAMETERS ON DISPLAY:

- Real time or game time,
- Game score 0 – 99;

SIZE OF DIGITS: 305 mm

VISIBILITY: approx. 150 m

ZTW 250-423





Protective mattress for the walls and columns

7-30

Thickness: 5 cm. Cover material: artificial leather. Filling: polyurethane foam T25. Structure: multilayered plywood 5 mm thick.

Protective mattresses for the walls, on the reinforcing frame structure

7-29-1

Intended for flat elements without bends. Thickness: 5 cm. Cover material: artificial leather. Filling: polyurethane foam T25. The reinforcing frame structure.

Protective mattresses for the walls and columns without reinforcing structure

7-29-2

Intended for flat elements without bends and round poles. Thickness: 5 cm. Cover material: artificial leather. Filling: polyurethane foam T25.



Types of seats for sports tribunes

Plastic seats are available in two types: one-piece or two-piece. One-piece seats are available in three variants: without backrest, with backrest 25 cm high and with backrest 32 cm high. Two-part seats SP-38 are available in two variants: with tilting under gravity seat and with folding backrest. All are made of polypropylene and have solid supporting structure with additional ribbed reinforcements under the seat. Water is drained through the opening in the middle of the seat.

Seats are resistant to low and high temperatures and UV radiation. All have a recess for attaching a number plate.

The two-piece form also have upholstered seats with backrest, and VIP seats, with a construction made of high quality plywood. Also the seats in the form of benches (mounted on tribunes designed for this type of seats) are made of plywood.

Seat attestation: hard to ignite, toxicity, resistance.

Basic colours of the seats: green, blue, red yellow. For large projects, colours are chosen according to customer preferences.



Low seat, without backrest



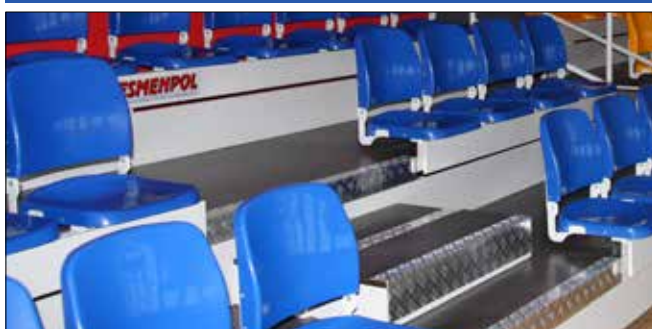
Seats with medium-high backrest (25 cm high)



Seats with high backrest (32 cm high)



Upholstered seats with backrest



Seats with folding backrest



VIP seats



Bench type seats



Seats with tilting under gravity seat

Seat on the structure, fixed to the riser

Seats are bolted to the beam, which is attached to the riser, using special brackets. With the construction, the height of the seat and the position of the seat relative to the pitch can be adjust, to make the viewing line optimal.

This type of fixing makes cleaning under the seat easier, eliminating structural elements attached to the ground, which can be an obstacle during sweeping or other cleaning works.



Seats on the structure, fixed to the step

Seats are bolted to the beam, which is attached to the step, using special supporting legs. With the construction, the position of the seat relative to the pitch can be adjust, to make the viewing line optimal. Solid hot dip galvanized or powder coated structure ensures safe long-term use.

Due to the use of high-class materials, the aesthetic qualities of the tribune do not deteriorate over the years.



Seats on freestanding structure - mobile bench

Seats are bolted to the beam, which is attached to the special legs. Legs are not permanently attached to the ground, which makes the structure moveable. Duo to mobility of the whole system, the position of the seat relative to the pitch can be adjust, to make the viewing line optimal. Solid hot dip galvanized or powder coated structure ensures safe long-term use.

Due to the use of high-class materials, the aesthetic qualities of the tribune do not deteriorate over the years.



Seats on the tilting under gravity structure

Plastic seat, equipped with gravitational mechanism, folds automatically, providing a broad passage between rows, guaranteeing users the convenience and the safety. When a seat is not used, dust, dirt, water or snow will not settle on it.

The mechanism is reliable and durable, with minimum number of parts that can fail. Does not require preservatives.

The whole structure is installed on the steel supporting beam, mounted on brackets fitted to the structure of the tribune. The bearing is made of durable plastic, intended for structural elements.





Modern design, high aesthetics and safety - these are the most important features, that we take into account, creating each tribune.

Tribunes are designed individually for each facility, based on relevant standards and technical regulations concerning tribunes.

Safety handrails

The tribune is equipped with a set of safety rails, installed at the rear and at the sides of each unit of the structure.

In case of mounting the tribune with the back or the sides against the wall, the handrails along the length may not be necessary.

There is no need to disassemble side handrails in order to fold the tribune.



Wheels

The tribunes are equipped with safe wheels, embedded on bearings, with cylindrical cross-section and linear contact with the surface, eliminating the risk of dents to the floor.



Aluminum-polyurethane rolls



Polyamide-polyurethane rolls

Trolley for transporting tribunes

PESMENPOL tribunes can be adapted for transportation, e.g. for storage.

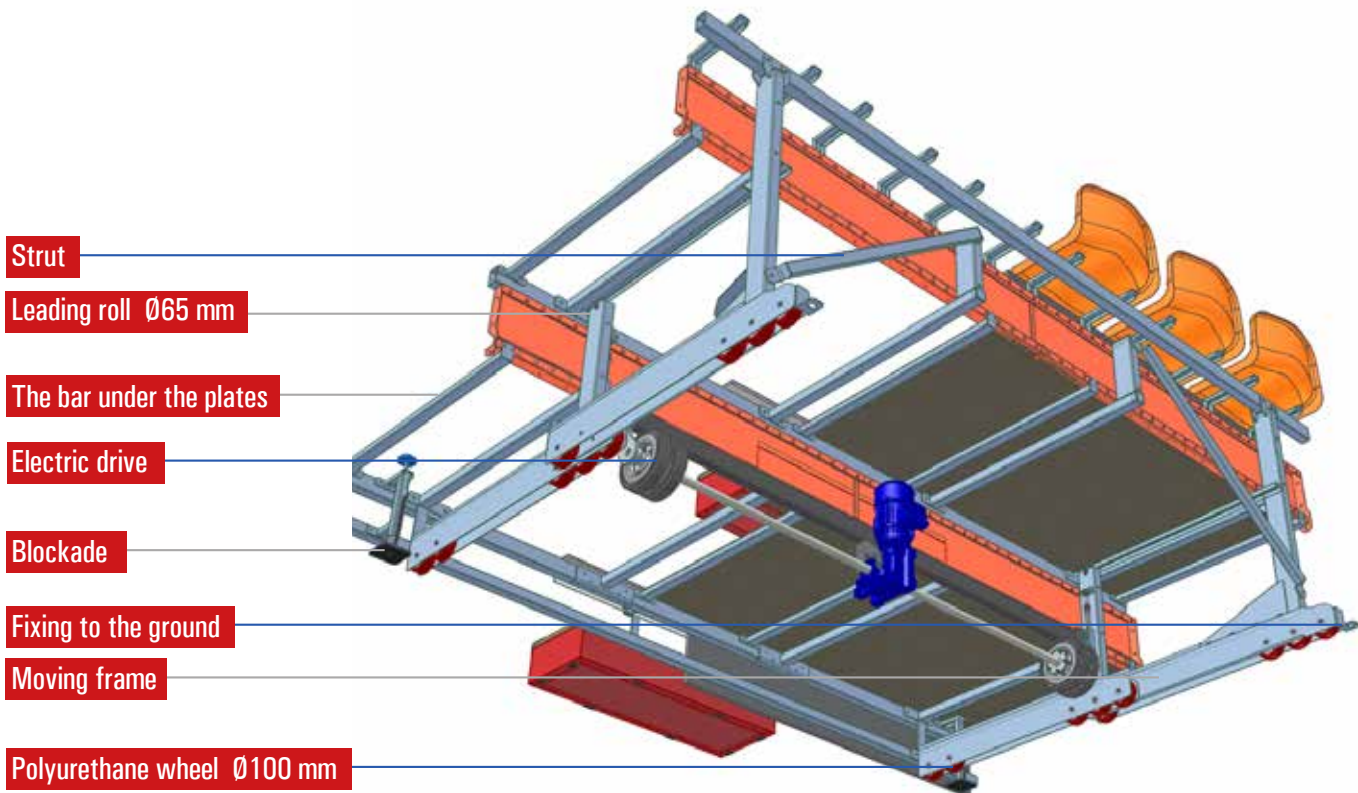
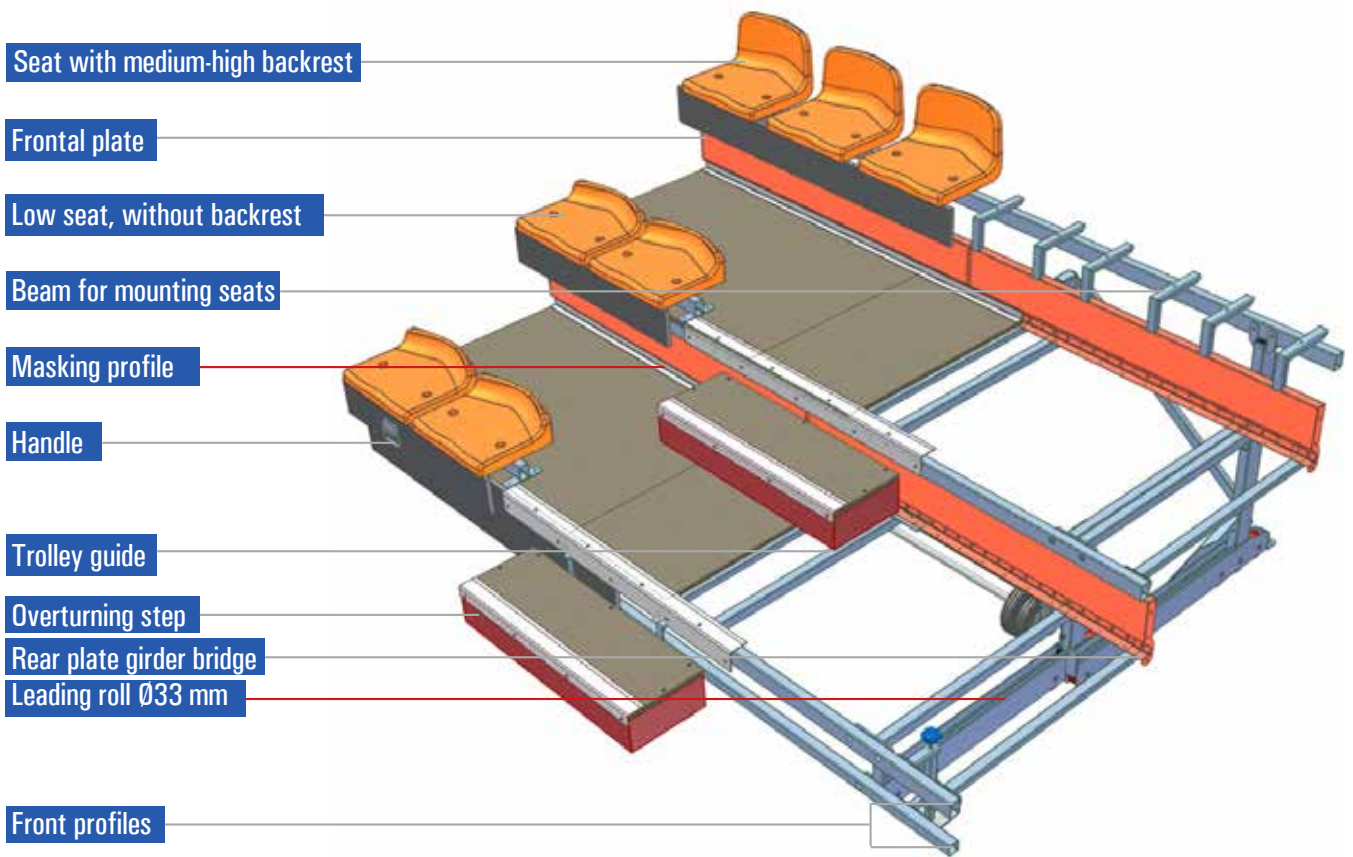
In order to transport the tribunes, we provide a set of two six-wheeled system trolleys. A folding stand has the ability to move in direction perpendicular to the wall (frontal plane of the tribune) and - after lifting, using system trolleys - possibility of transportation to any place.



14-10

BASIC FEATURES OF THE PESMENPOL TELESCOPIC TRIBUNES SYSTEM

- Structure made of powder coated steel profiles.
- Modern and simple way of folding and unfolding, based on frictionless roller system; tribune can be folded and unfolded by only one person.
- An increased number of wheels reduces the unit pressure of the tribune on the hall surface. Safe polyurethane wheels do not leave traces on the floor.
- Safe platforms are made of anti-slip board.
- Additional middle steps, finished with corrugated aluminum sheets, for ease of entering and descending from the tribune.
- There is no need to disassemble handrails in order to fold the tribune.
- Finishing elements and seats are high quality products, that meet rigorous safety regulations.



Telescopic tribune with tilting under gravity seats

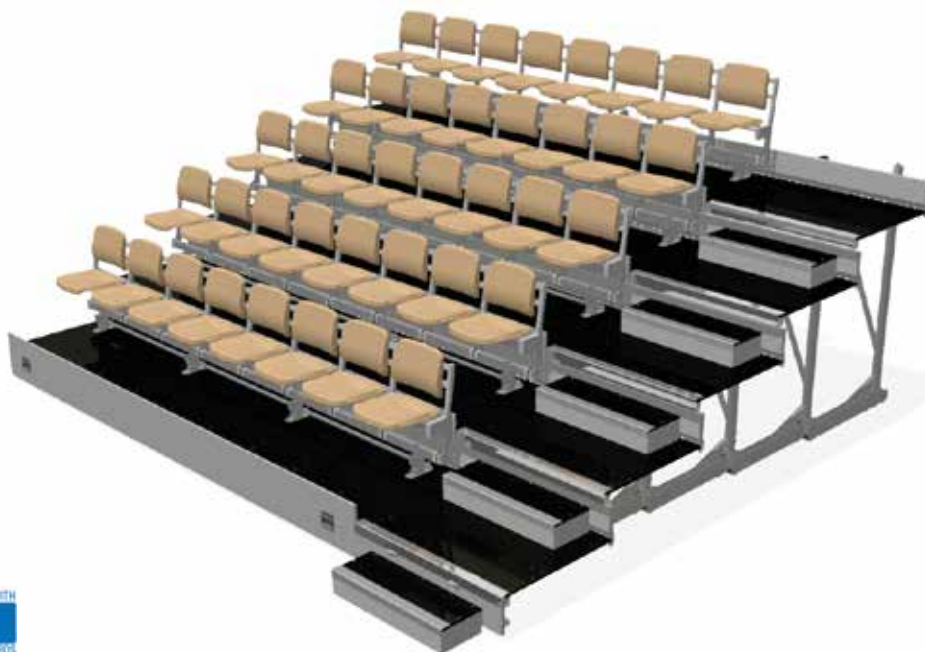
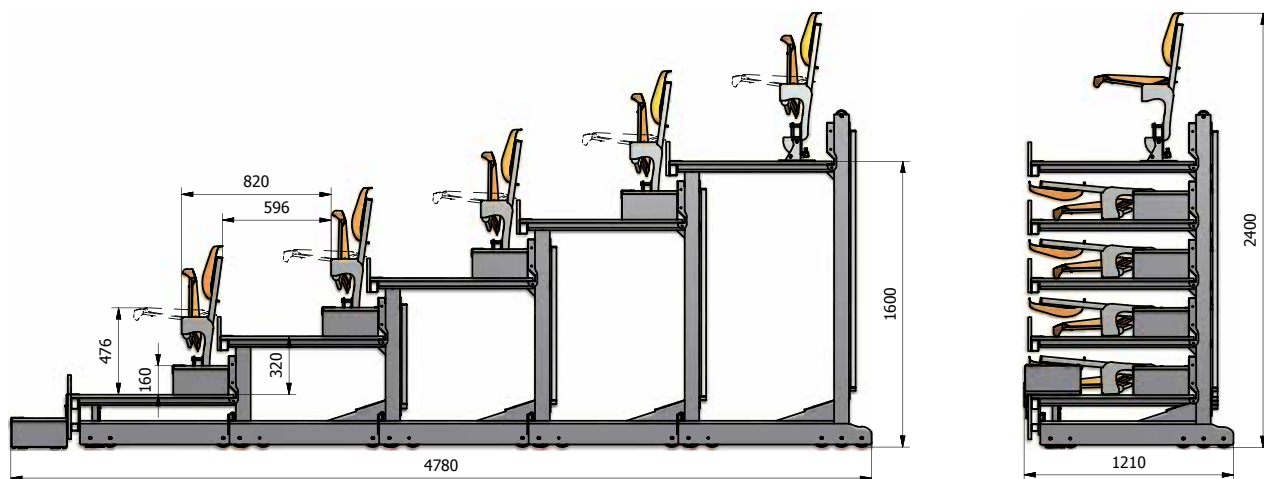
The tribune with unit structure, equipped with tilting under gravity seats SP-38. Certified, made of components that meet the highest rules, compliant with stringent quality standards. The tribune contains the elements which are customize for particular facility. The single unit is maximum 6 m wide and has from 3 to 16 rows. The wide of communication channels and the number of exits are determined by certain safety directives and standards.

The platforms are made of anti-slip boars 18 mm thick. The structure of the units is made of powder coated steel profiles. Paint surface, obtained in the powder coating process, is resistant to weathering, mechanical damage and high temperature.

The seats, equipped with gravitational mechanism, fold automatically, providing a broad passage. The width of the folded seat is 230 mm. The seats are fixed to the tilting beam, which folds during the tribune folding. The seats of the top row are fixed to the stationary beam. Colours are individually adapted to the customer requirements.

Parameters	Number of rows	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Depth of tribune in open position [cm]		314	396	478	560	642	724	806	888	970	1052	1134	1216	1298	1380
Depth of tribune in closed position [cm]		121	121	121	121	121	121	121	121	121	121	121	121	121	121
Height of the last platform [cm]		96	128	160	192	224	256	288	320	352	384	416	448	480	512
Average number of seats per 1 m*		5,3	7,0	8,7	10,4	12,1	13,7	15,4	17,1	18,8	20,5	22,2	23,8	25,5	27,2

*Average number of seats listed in the table may differ from the actual value in the finished project, due to local conditions, layout of seats, number of entrances, etc.



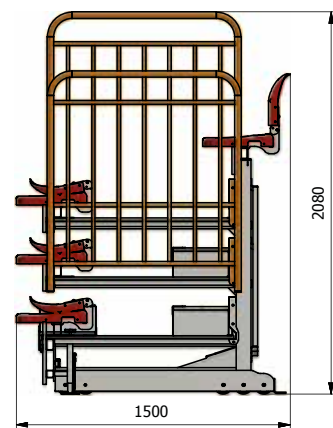
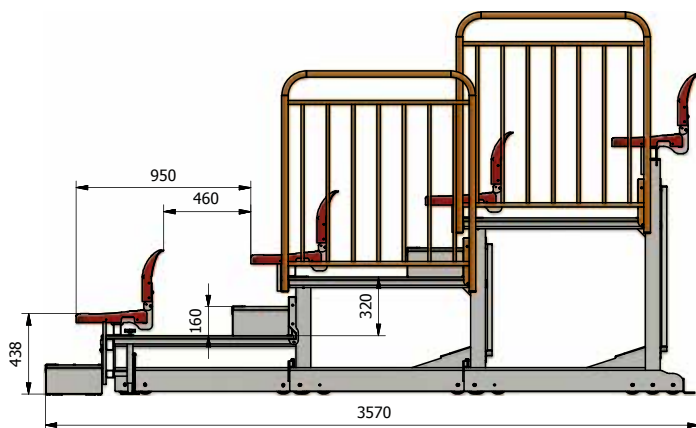


Telescopic tribune with folding plastic seats

The tribune contains the elements which are customize for particular facility. The single unit is maximum 6 m wide and has from 3 to 16 rows. The wide of communication channels and the number of exits are determined by certain safety directives and standards. The platforms are made of anti-slip boards 18 mm thick. The structure of the units is made of powder coated steel profiles. Paint surface, obtained in the powder coating process, is resistant to weathering, mechanical damage and high temperature. Folding seat consists of two elements: the lower part, attached to the tribune permanently, and backrest, fixed to the tilting beam, which folds during the tribune folding. Two last rows are equipped with seats with backrests installed permanently. Colours are individually adapted to the customer requirements.

Parameters \ Number of rows	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Depth of tribune in open position [cm]	263	358	453	548	643	738	833	928	1023	1118	1213	1308	1403	1498
Depth of tribune in closed position [cm]	151	151	151	151	151	151	151	151	151	151	151	151	151	151
Height of the last platform [cm]	64	96	128	160	192	224	256	288	320	352	384	416	448	480
Average number of seats per 1 m*	5,3	7,0	8,7	10,4	12,1	13,7	15,4	17,1	18,8	20,5	22,2	23,8	25,5	27,2

*Average number of seats listed in the table may differ from the actual value in the finished project, due to local conditions, layout of seats, number of entrances, etc.





Telescopic tribune with plastic seats

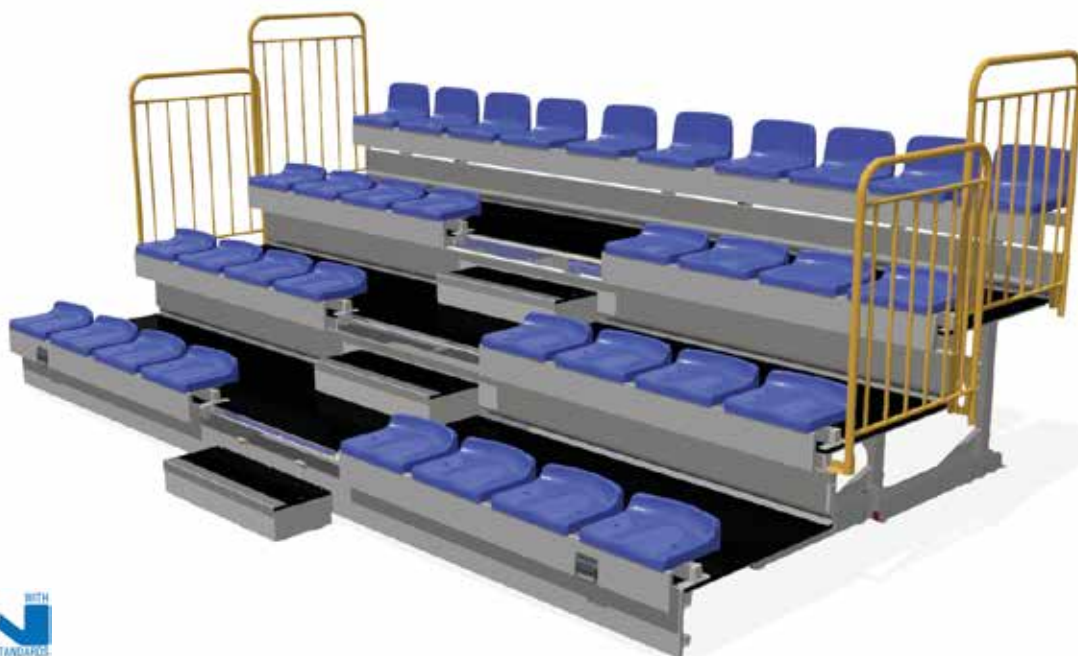
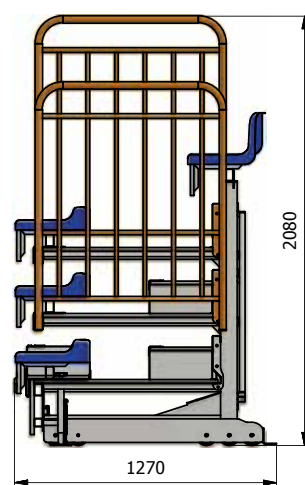
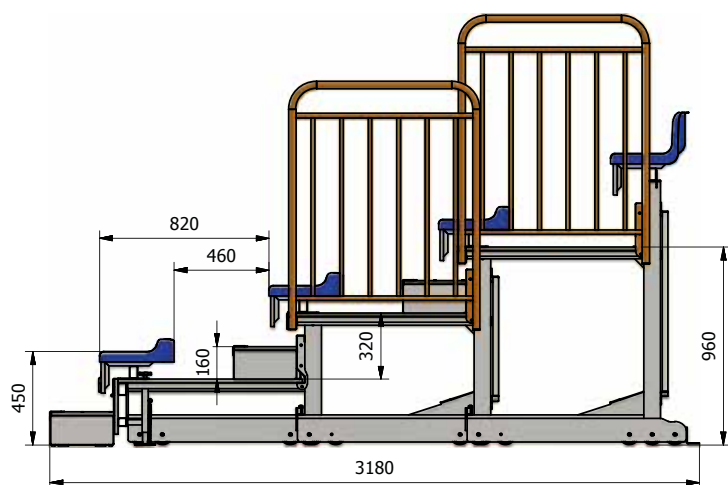
The tribune contains the elements which are customize for particular facility. The single unit is maximum 6 m wide and has from 3 to 16 rows. The wide of communication channels and the number of exits are determined by certain safety directives and standards.

The platforms are made of anti-slip boars 18 mm thick. The structure of the units is made of powder coated steel profiles. Paint surface, obtained in the powder coating process, is resistant to weathering, mechanical damage and high temperature.

Due to the structure, the lower rows of the tribune are equipped with plastic seats without backrest, which hide in the space between the platforms while folding the tribune. The last row is equipped with seats with medium-high backrest (25 cm high). Colours are individually adapted to the customer requirements.

Parameters	Number of rows	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Depth of tribune in open position [cm]		232	314	396	478	560	642	724	806	888	970	1052	1134	1216	1298
Depth of tribune in closed position [cm]		127	127	127	127	127	127	127	127	127	127	127	127	127	127
Height of the last platform [cm]		64	96	128	160	192	224	256	288	320	352	384	416	448	480
Average number of seats per 1 m*		5,3	7,0	8,7	10,4	12,1	13,7	15,4	17,1	18,8	20,5	22,2	23,8	25,5	27,2

*Average number of seats listed in the table may differ from the actual value in the finished project, due to local conditions, layout of seats, number of entrances, etc.





Telescopic tribunes with wooden benches

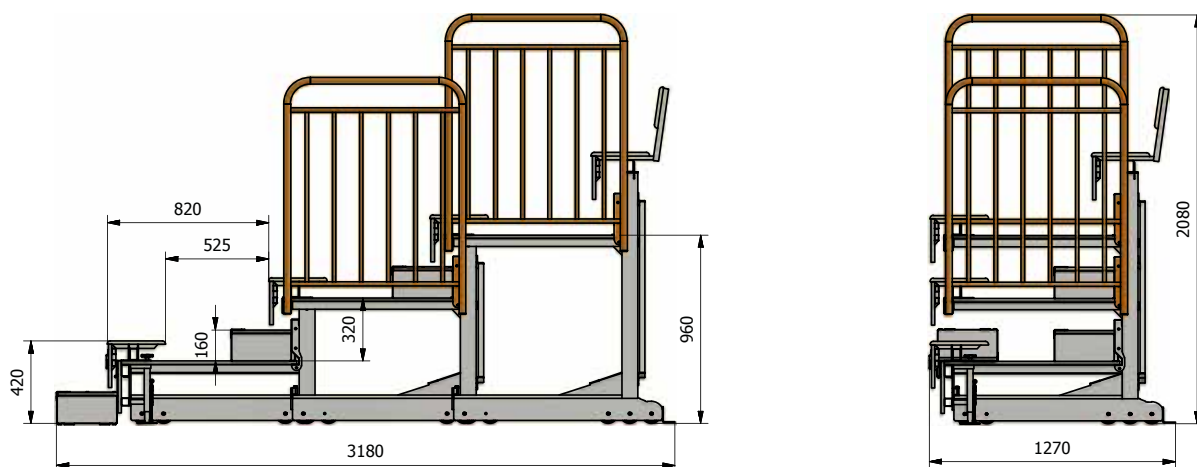
The tribune contains the elements which are customize for particular facility. The single unit is maximum 6 m wide and has from 3 to 16 rows. The wide of communication channels and the number of exits are determined by certain safety directives and standards.

The platforms are made of anti-slip boars 18 mm thick. The structure of the units is made of powder coated steel profiles. Paint surface, obtained in the powder coating process, is resistant to weathering, mechanical damage and high temperature.

The tribune is equipped with benches, made of laminated wooden boards, protected with a layer of lacquer with increased fire resistance and polished. The top row of benches is equipped with a backrest, made of the same wooden boards. Colours are individually adapted to the customer requirements.

Parameters	Number of rows	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Depth of tribune in open position [cm]		232	314	396	478	560	642	724	806	888	970	1052	1134	1216	1298
Depth of tribune in closed position [cm]		127	127	127	127	127	127	127	127	127	127	127	127	127	127
Height of the last platform [cm]		64	96	128	160	192	224	256	288	320	352	384	416	448	480
Average number of seats per 1 m*		5,3	7,0	8,7	10,4	12,1	13,7	15,4	17,1	18,8	20,5	22,2	23,8	25,5	27,2

*Average number of seats listed in the table may differ from the actual value in the finished project, due to local conditions, layout of seats, number of entrances, etc.





Telescopic tribunes with upholstered seats

Telescopic tribune with folding upholstered seats with armrests, equipped with electric drive. The system consists of moving frames, front- and back connectors, crossbeams and platform boards, covered with carpet.

Moving frames are made of closed steel profiles 80x40x2 mm, 40x40x2 mm, steel C-sections 40x40x40x2 mm, 20x40x20x3 mm and hot rolled metal sheets #3, #5 and #8 mm thick. The frame is equipped with wheels with safe polyurethane track, with the diameter of 100 mm, and leading rollers, moving inside the profiled furrow of the following frame. The frames are connected using back and front connectors. The front connector is made of profile 60x40x2 mm; the back connector is made of cold rolled metal sheet 1,5 mm thick. The back connector is bent into a special shape and therefore can carry greater load.

The structure is additionally stiffened by crossbeams and struts, made of closed steel profile 40x27x2 mm, finished with fixing plates.

Platform boards, made of multi-layered anti-slip plywood 18 mm thick and covered with grey carpet (as a standard), are assembled directly to the structure. The seats with the folding mechanism are attached to the platforms.

The single seat consists of a movable seat, backrest and armrests. The movable seat is equipped at the rear with an additional ballast, which allows for automatic return to the vertical position.

The structure of the seat, backrest and armrests is made of steel sheets and wood, covered with soft sponge; the whole is upholstered with red velour material (as a standard).

Axial spacing of seats	500 mm
Type of seats	Folding seats with backrest
Level difference between platforms	320 mm – standard
The height of the middle steps	160 mm – standard
Steps finishing	Anti-slip corrugated aluminum sheets
The width of the entrances	> 120 cm
Metal surfaces finishing	Powder coating by the RAL palette As a standard RAL 7035
Handrails colour	Powder coating by the RAL palette As a standard RAL 2004
Material of the platform	Multi-layered plywood covered with carpet Other finishing available on special request





Telescopic tribune with plastic seats – TTW-350

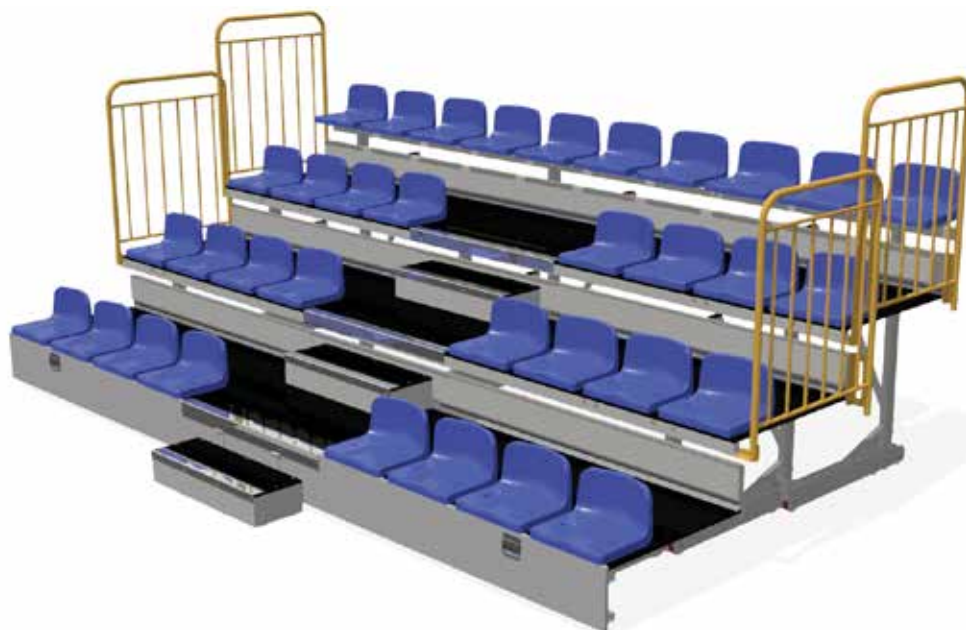
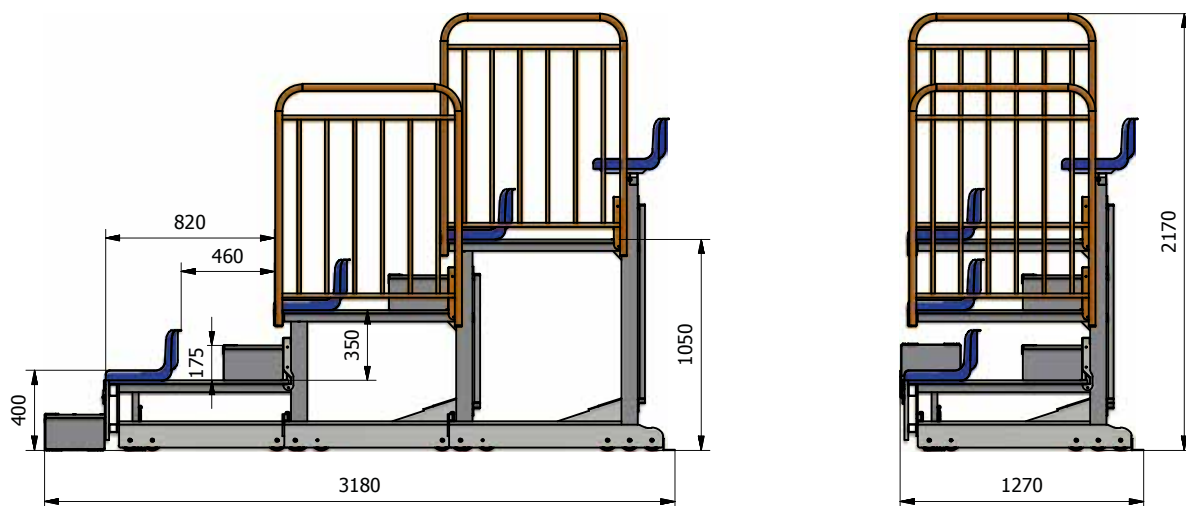
The tribune contains the elements which are customize for particular facility. The single unit is maximum 6 m wide and has from 3 to 16 rows. The wide of communication channels and the number of exits are determined by certain safety directives and standards. The platforms are made of anti-slip boars 18 mm thick. The structure of the units is made of powder coated steel profiles. Paint surface, obtained in the powder coating process, is resistant to weathering, mechanical damage and high temperature.

The tribune is equipped with the seats with backrest 25 cm high. When the tribune is folded, the seats are hiding into the space between platforms (it is possible by increasing the difference of levels between following rows).

Colours are individually adapted to the customer requirements.

Parameters	Number of rows	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Depth of tribune in open position [cm]		236	318	400	482	564	646	728	810	892	974	1056	1138	1220	1302
Depth of tribune in closed position [cm]		127	127	127	127	127	127	127	127	127	127	127	127	127	127
Height of the last platform [cm]		70	105	140	175	210	245	280	315	350	385	420	455	490	525
Average number of seats per 1 m*		5,3	7,0	8,7	10,4	12,1	13,7	15,4	17,1	18,8	20,5	22,2	23,8	25,5	27,2

*Average number of seats listed in the table may differ from the actual value in the finished project, due to local conditions, layout of seats, number of entrances, etc.





Tribunes folded up against the wall, type RANTZWOS

Solid steel construction provides the long-lasting and stable use. Built-in gas springs allow for easy folding and unfolding the tribune - manually or electrically (depending on the chosen version), by only one person. The system also allows for the installation and operating of the tribunes in facilities with lack of space for standard telescopic or stationary tribunes.

Tribunes are customized for customer needs, considering also technical conditions of particular facility. The tribune contains 2 - 5 rows. Each unit is 2020 mm long and has 4 seats in one row.

Technical specification of standard tribune:

- steel structure + safety handrails, powder coated in white (RAL 9003) or galvanized;
- the structure of the seats and risers – wooden, varnished;
- folding mechanism for tribune with 2 – 4 rows – manual;
- folding mechanism for tribune with 5 rows – electric.

To increase comfort, the new type of tribune is equipped with backrests made of bent plywood. The backrest could be also fit up with upholstery.

Type	Open position		Closed position		Options				
	The depth (to the wall)	The height of the last row	The depth (to the wall)	The height of the last row	Stairs	Integrated side handrails	Demountable side handrails	Colour on request	Electric drive
2 rows [cm]	125,5	80	21	142,5	•	•	•	•	•
3 rows [cm]	192	120	27,7	202,5	•	•	•	•	•
3 rows NEW TYPE [cm]	221	120	27,7	234,5	•	•	•	•	•
4 rows [cm]	258,5	160	34	264,5	•	•	•	•	•
5 rows [cm]	325	200	40	324,5	•	•	•	•	Standard
2 rows movable [cm]	125,5	80	21	142,5	•	•	•	•	•
3 rows movable [cm]	192	120	27,7	202,5	•	•	•	•	•





Telescopic folding tribune without seats, with LED lighting

Telescopic folding tribune, without seats, with LED lighting, equipped with electric drive.

The system consists of moving frames, front- and back connectors, crossbeams and platform boards, covered with carpet.

Moving frames are made of steel closed profiles 80x40x2 mm, 40x40x2 mm, steel C-sections 40x40x40x2 mm, 20x40x20x3 mm and hot rolled metal sheets #3, #5 and #8 mm thick. The frame is equipped with wheels with safe polyurethane track, with the diameter of 100 mm, and leading rollers, moving inside the profiled furrow of the following frame.

The frames are connected using back and front connectors. The front connector is made of profile 60x40x2 mm, the back connector is made of cold rolled metal sheet 1,5 mm thick. The back connector is bent into a special shape and therefore can carry greater load.

The structure is additionally stiffened by crossbeams and struts, made of closed steel profile 40x27x2 mm, finished with fixing plates. Platform boards, made of multi-layered anti-slip plywood 18 mm thick and covered with grey carpet (as a standard), are assembled directly to the structure.

The tribune is designed according to the client's guidelines. Through the wide range of maneuvering the difference between the levels of the successive platforms and the length of the entire tribune, it is possible to fit the tribune to each object and any function.

LED lighting in various configurations, for example on communication channels only or on the entire length of the tribune, on each platform, is provided for special order.

Level difference between platforms	320 mm – standard Possibility of customizing
The height of the middle steps	160 mm – standard Possibility of customizing
Steps finishing	Anti-slip corrugated aluminum sheets
The width of the entrances	> 120 cm
Metal surfaces finishing	Powder coating by the RAL palette As a standard RAL 7035
Handrails colour	Powder coating by the RAL palette As a standard RAL 2004
Material of the platform	Multi-layered plywood covered with carpet Other finishing available on special request







Stationary tribunes

The structure of stationary tribune is made of closed steel profiles and metal sheets, protected against corrosion by powder coating (tribunes for indoor use) or by hot dip galvanizing (tribunes for outdoor use).

The design of the tribune is customize for particular facility, according to the safety directives concerning tribunes.

Tribunes are certified for compliance with the standards PN-EN 13200-1, PN-EN 13200-3:2006.

Platforms

Stationary tribunes intended for outdoor use are equipped with platforms made of hot dip galvanized steel lattice or corrugated aluminum sheets. Tribunes for indoor use are equipped with platforms made of wooden board 18 mm thick, covered with carpets intended for use in public utility and finished with decorative aluminum profiles.

Safety handrails

Each tribune is equipped with a set of safety rails, installed at the rear and at the sides of each unit of the structure.

Handrails are protected against corrosion by powder coating (in orange RAL 2004 as a standard).



Seats

Stationary tribunes are equipped with plastic seats, available in three types: without backrest, with backrest 25 cm high and with backrest 32 cm high. Basic colours of the seats: yellow (RAL 1003), red (RAL 3020), blue (RAL 5010), green (RAL 6032). Colours available at order of minimum 100 pcs: orange (RAL 2008), gray (RAL 7001 or 7038 or 7040), white (RAL 9003), black (RAL 9017). Other colour options available when ordering more than 200 pcs.

Tribunes intended for indoor use can be equipped with wooden benches, made of varnished wooden slats.



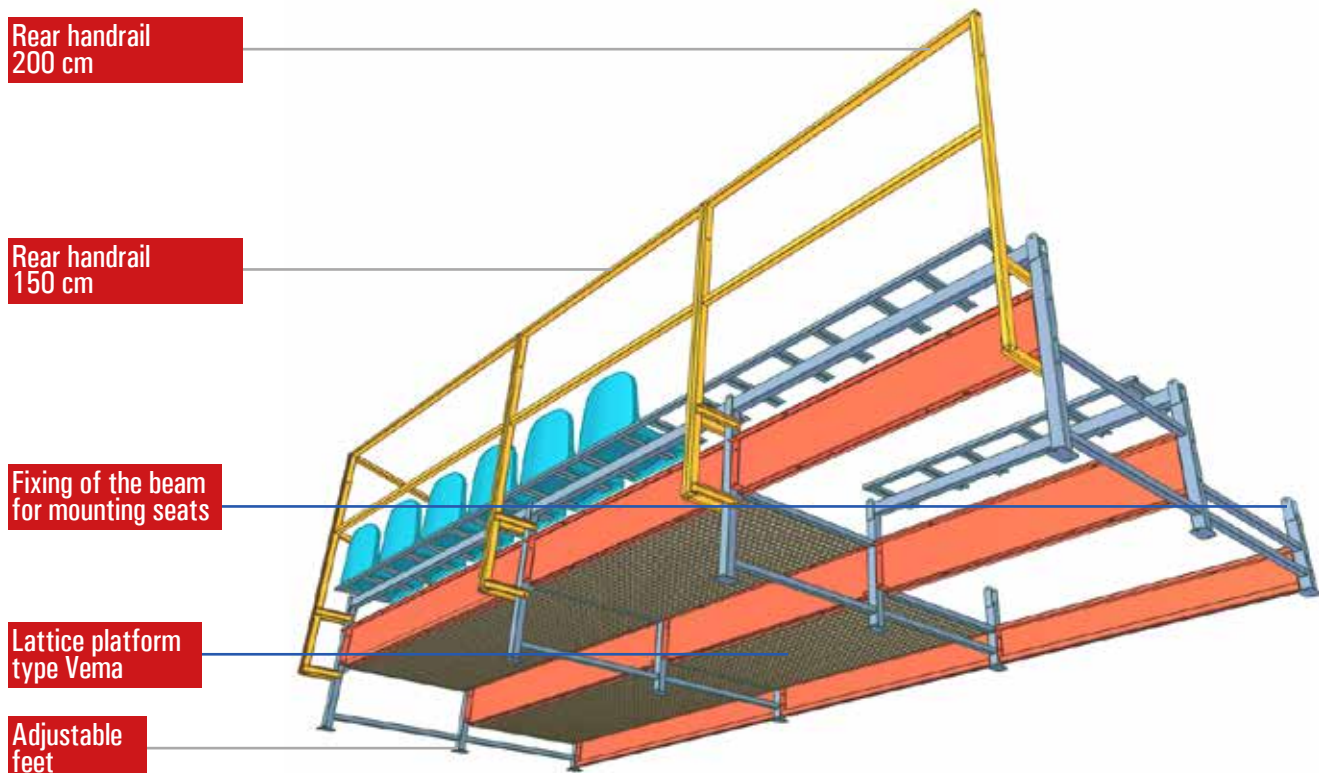
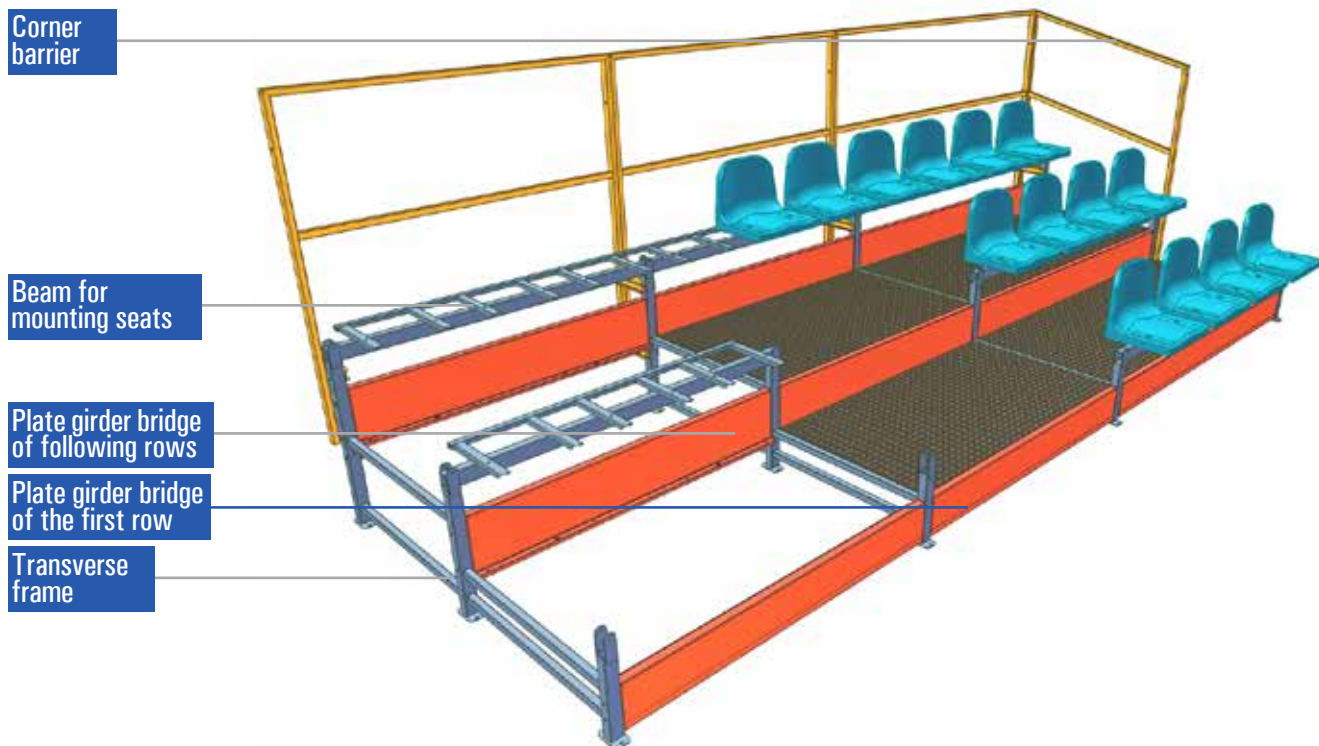
S-10 Low seat, without backrest



S-25 Seat with medium-high backrest (25 cm high)



S-32 Seat with high backrest (32 cm high)



Stationary tribune with a riser, type TSH-200

Stationary tribune for indoor use, with plastic seats and platforms made of the board covered with anti-slip covering.

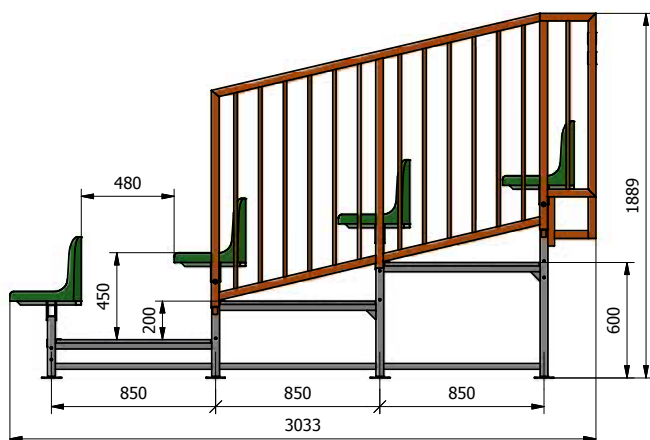
The structure of the tribune is made of closed steel profiles (transverse frames, connectors, brackets for attaching seats) and cold rolled metal sheets 1,5 mm thick, bent in a special shape, powder coated to any color in the RAL palette (as a standard RAL 7035 – light gray).

The frames are mounted in standard spacing of 2000 mm, 1500 mm or 1250 mm. Hard to ignite plastic seats available in three types: without backrest, with medium-high backrest and with high backrest. The tribune is equipped with safety handrails, installed at the rear and at the sides, powder coated in orange (RAL 2004).

The design of the tribune is customize for particular facility, according to the safety directives concerning tribunes.

Parameters \ Number of rows	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Depth of tribune [cm]	128	213	298	383	468	553	638	808	893	978	1063	1148	1233	1318
Height of the last platform [cm]	20	40	60	80	100	120	140	160	180	200	220	240	260	280
Average number of seats per 1 m*	~3,5	~5	~6,5	~8	~9,5	~11	~12,5	~14	~16,5	~18	~19,5	~21	~22,5	~24

*Average number of seats listed in the table may differ from the actual value in the finished project, due to local conditions, layout of seats, number of entrances, etc.





Stationary tribunes with plastic seats

Stationary tribune for indoor use, with plastic seats and platforms made of the board covered with anti-slip covering.

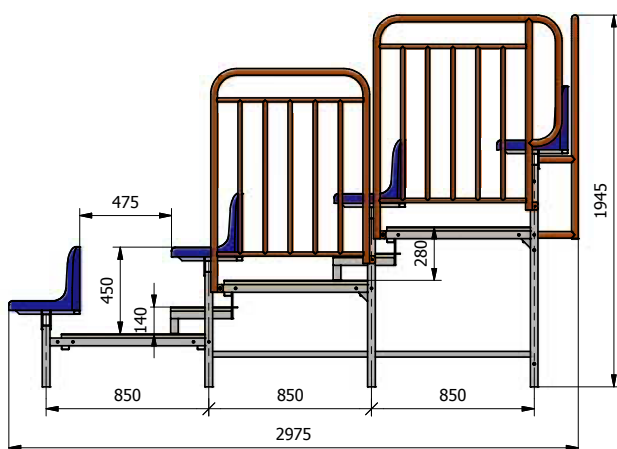
The structure of the tribune is made of closed steel profiles (transverse frames, connectors, brackets for attaching seats), protected by powder coating. The frames are mounted in standard spacing of 2000 mm, 1500 mm or 1250 mm.

Plastic seats (hard to ignite) are available in three types: without backrest, with medium-high backrest and with high backrest. The tribune is equipped with safety handrails, assembled at the rear and at the sides, powder coated in orange (RAL 2004).

The design of the tribune is customize for particular facility, according to the safety directives concerning tribunes.

Parameters	Number of rows	2	3	4	5	6	7	8
Depth of tribune [cm]		125	210	295	380	465	550	635
Height of the last platform [cm]		28	56	84	112	140	168	196
Average number of seats per 1 m*		~ 3,5	~ 5	~ 6,5	~ 8	~ 9,5	~ 11	~ 12,5

*Average number of seats listed in the table may differ from the actual value in the finished project, due to local conditions, layout of seats, number of entrances, etc.



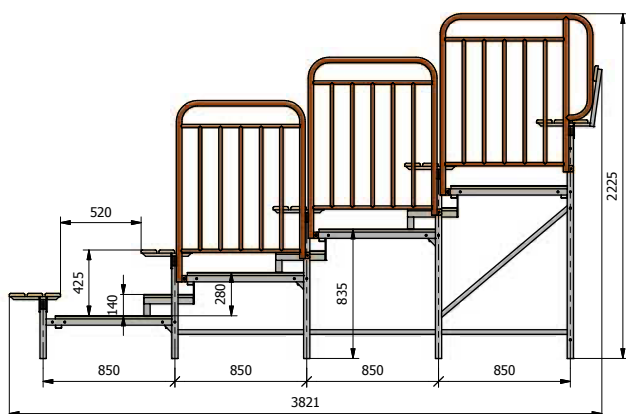


Stationary tribune with wooden benches

Stationary tribune for indoor use, with wooden benches and platforms made of the board covered with anti-slip covering. The structure of the tribune is made of closed steel profiles (transverse frames, connectors, brackets for attaching seats), protected by powder coating. The frames are mounted in standard spacing of 2000 mm, 1500 mm or 1250 mm. The bench is made of wooden slats, covered with fire-resistant lacquer. The top row of benches is equipped with backrest, also made of wooden slats. The tribune is equipped with middle steps and safety handrails, assembled at the sides, powder coated in orange (RAL 2004). The design of the tribune is customized for particular facility, according to the safety directives concerning tribunes.

Parameters \ Number of rows	2	3	4	5	6	7	8
Depth of tribune [cm]	125	210	295	380	465	550	635
Height of the last platform [cm]	28	56	84	112	140	168	196
Average number of seats per 1 m*	~ 3,5	~ 5	~ 6,5	~ 8	~ 9,5	~ 11	~ 12,5

* Average number of seats listed in the table may differ from the actual value in the finished project, due to local conditions, layout of seats, number of entrances, etc.





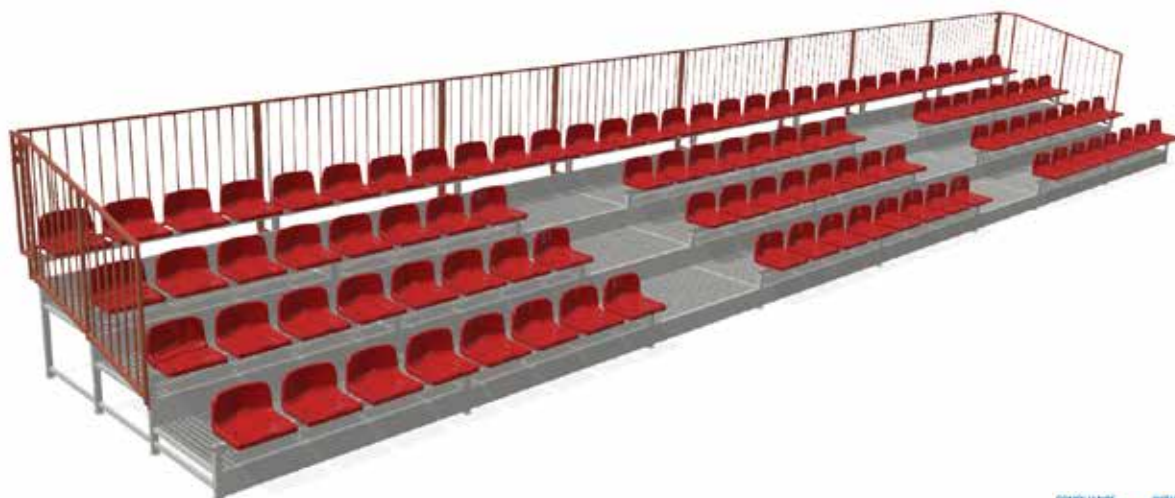
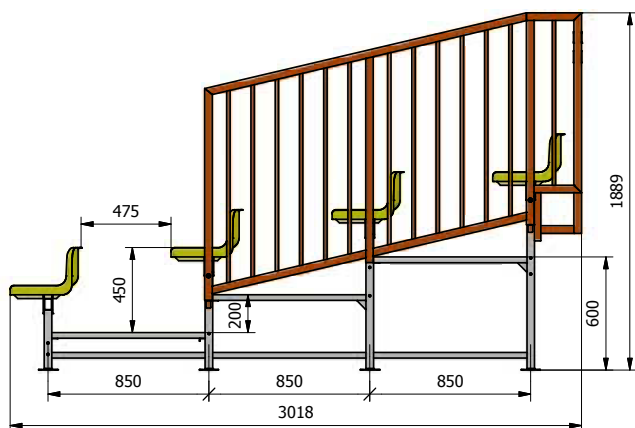
Stationary tribune for outdoor use with a riser, type TSD-200,

Stationary tribune for outdoor use, with plastic seats and risers made of galvanized steel lattice or corrugated aluminum sheets. The structure of the tribune is made of closed steel profiles (transverse frames, connectors, brackets for installing seats) and cold rolled metal sheets 1,5 mm thick, protected by hot dip galvanizing. The frames are mounted in standard spacing of 2000 mm, 1500 mm or 1250 mm.

Plastic seats (hard to ignite) are available in three types: without backrest, with medium-high backrest and with high backrest. The tribune is also equipped with safety handrails, installed at the rear and at the sides, powder coated. The design of the tribune is customized for particular facility, according to the safety directives concerning tribunes.

Parameters \ Number of rows	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Depth of tribune [cm]	128	213	298	383	468	553	638	808	893	978	1063	1148	1233	1318
Height of the last platform [cm]	20	40	60	80	100	120	140	160	180	200	220	240	260	280
Average number of seats per 1 m*	~3,5	~5	~6,5	~8	~9,5	~11	~12,5	~14	~16,5	~18	~19,5	~21	~22,5	~24

*Average number of seats listed in the table may differ from the actual value in the finished project, due to local conditions, layout of seats, number of entrances, etc.

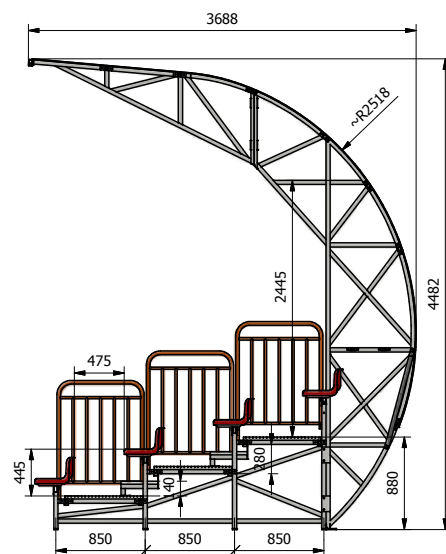
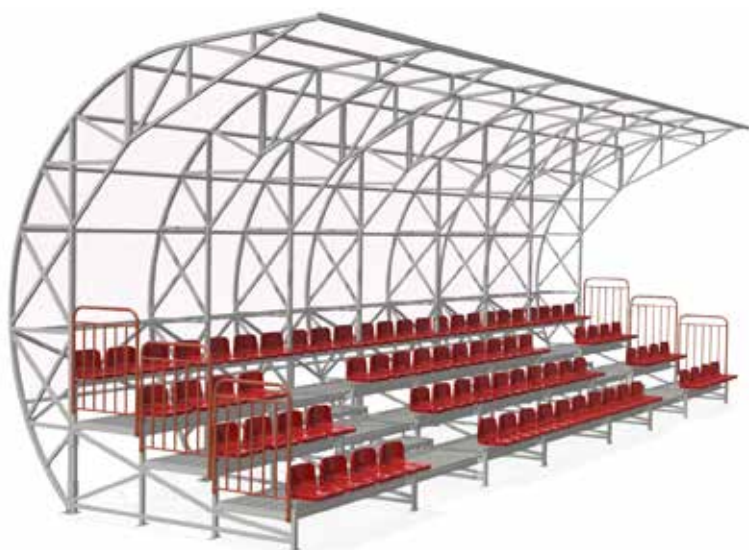




Roofed stationary tribune for outdoor use

Stationary roofed tribune for outdoor use, with 3 or 4 rows, plastic seats and the roof, made of cellular polycarbonate. The tribune consists of: transverse frames, connectors, brackets for installing seats, platforms and seats. The frames are mounted in standard spacing of 2000 mm or 1500 mm.

Galvanized lattice platforms, type VEMA, are screwed directly to the structure of the tribune. The frame of the roof structure, consisting of two parts, is assembled to the transverse frames of the tribune and anchored directly to the ground (concrete foundations). The cover of the roof is made of cellular polycarbonate plates 8 mm thick, coated 2 x UV. The whole structure is protected against corrosion by hot-dip galvanizing. Plastic seats (hard to ignite) available in three types: without backrest, with medium-high backrest and with high backrest. The tribune is also equipped with middle steps and safety handrails.





Stationary tribunes for outdoor use with plastic seats

Stationary tribune with plastic seats is equipped with handrails assembled at the sides and at the back.

Level difference between following platforms is 280 mm.

Plastic seats are available in three types: without backrest, with backrest 25 cm high and with backrest 32 cm high.

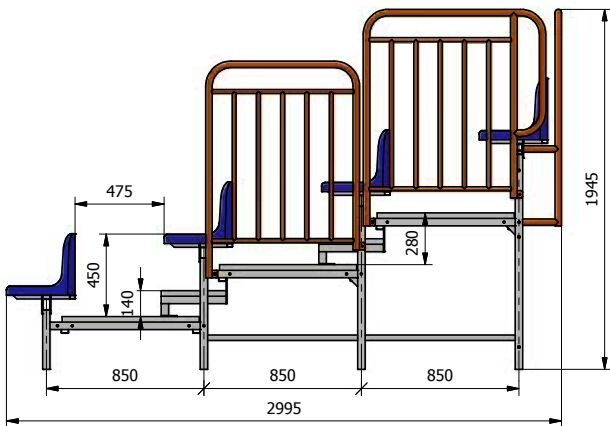
All are made of polypropylene and have solid supporting structure with additional ribbed reinforcements under the seat. The double rear wall significantly increases the seat's resistance to vandalism. Water is drained through the opening in the middle of the seat.

Seats are resistant to low and high temperatures and UV radiation. Seat attestation: hard to ignite, toxic, resistance.

Basic colours of the seats: green, blue, red yellow. For large projects, colours are chosen according to customer preferences.

Parameters \ Number of rows	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Depth of tribune [cm]	128	213	298	383	468	553	638	808	893	978	1063	1148	1233	1318
Height of the last platform [cm]	28	56	84	112	140	168	196	224	252	280	308	336	364	392
Average number of seats per 1 m*	3,5	5	6,5	8	9,5	11	12,5	14	15,5	17	18,5	20	21,5	23

*Average number of seats listed in the table may differ from the actual value in the finished project, due to local conditions, layout of seats, number of entrances, etc.

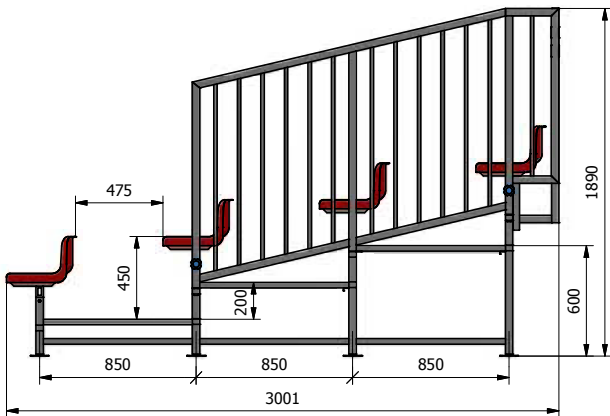


Stationary mobile tribune for outdoor use, type TMZ

Stationary mobile tribune for outdoor use, with plastic seats and platforms made of galvanized lattice platform. Tribune is designed for the purpose of handling events, due to the possibility of quick assembly and disassembly, and flexibility in setting up ad hoc the audience. The system is designed in a way as to stop unauthorized removal of individual elements, which prevent thefts. The tribune is intended for assembling on the hardened ground. The tribune structure is made of closed steel profiles. The main frames are made of closed steel profiles with pillars made of profile 50x40 mm. The longitudinal beams, which connect the frames, are made of profiled metal sheets and are equipped with special handles, allowing quick installation by hanging on the transverse frames. They support the platforms and also serve as risers. The level difference between following platforms is 200 mm, eliminating the need for steps and middle steps. Hard to ignite plastic seats are offered in three types: without backrest, with medium-high backrest and with high backrest. Transverse frames are equipped with adjustable feet, allowing to compensate for uneven floor in the range to 50 mm. The handrails 110 cm high, assemble at the ends and, if necessary, at the back of the tribune. All metal components are hot-dip galvanized.

Parameters	Number of rows	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Depth of tribune [cm]		128	213	298	383	468	553	638	808	893	978	1063	1148	1233	1318
Height of the last platform [cm]		20	40	60	80	100	120	140	160	180	200	220	240	260	280
Average number of seats per 1 m*		~3,5	~5	~6,5	~8	~9,5	~11	~12,5	~14	~16,5	~18	~19,5	~21	~22,5	~24

*Average number of seats listed in the table may differ from the actual value in the finished project, due to local conditions, layout of seats, number of entrances, etc.





Steel storage locker SM-120

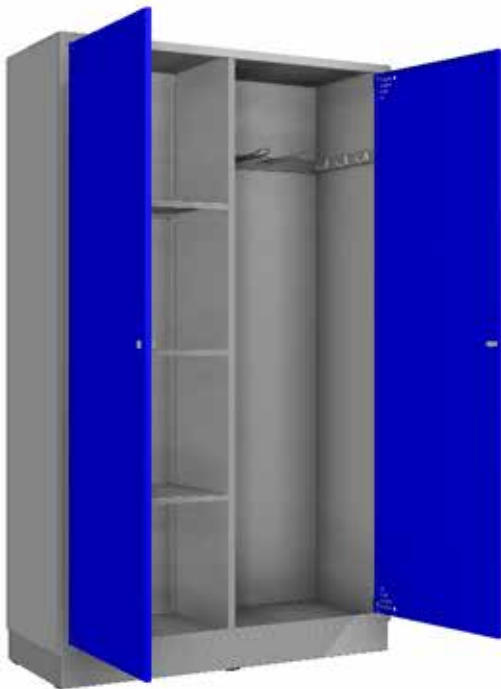
Solid design of the steel storage locker allows wide range of its use. It is perfect for both the back of the sports hall or school, and for warehouses or stores. Powder coated locker with two doors, containing one compartment with four shelves, is embedded on a metal socle.

Dimensions:
 Width: 120 cm
 Depth: 49 cm
 Total height: 200 cm

Basic colours:
 Light gray (RAL 7035)
 Blue (RAL 5010)

Other colours from RAL palette – surcharge 10%
 Change of door colour - surcharge 7%

76-03



Steel storage locker for sports equipment SM-120-SPORT1

Extremely functional, spacious and solid metal locker designed to store sports equipment and accessories. Capacious compartment allows to place a large amount of equipment and the shelves allow to conveniently arrange all the small pieces of equipment. Powder coated locker with two doors, containing four shelves and hangers, is embedded on a metal socle.

Dimensions:
 Width: 120 cm
 Depth: 49 cm
 Total height: 200 cm

Basic colours:
 Light gray (RAL 7035), Blue (RAL 5010)

Other colours from RAL palette – surcharge 10%
 Change of door colour - surcharge 7%

76-01



Portable trolley (supplementary to the storage locker SM-120-SPORT1)

Portable trolley is a perfect supplement to the steel storage locker SM-120-SPORT1. The trolley allows carrying balls and other sports equipment. Made of metal, guarantees durability and high quality.

Dimensions:
 Width: 51,8 cm
 Depth: 45,1 cm
 Total height: 68,7 cm

Basic colours:
 Light gray (RAL 7035)
 Blue (RAL 5010)

76-02

Single steel clothes locker

Single locker, containing one compartment 30, 40 or 50 cm wide, which guarantees enough space to store clothing and personal items, and also handy objects. In order to increase functionality, the locker can be equipped with a bench 40 cm high, made of varnished wooden strips.



Single clothes locker on the socle



Single clothes locker on the bench

Art. No.	Single steel clothes locker	Dimensions (HxWxD)
76-30	Steel clothes locker SM-30-1. Locker with 1 door, 1 compartment, on the socle.	180x30x49 cm
76-30-2	Steel clothes locker with a bench SML-30-1. Locker with 1 door, 1 compartment, on the bench 40 cm high, made of wooden strips.	210x30x49 cm
76-40	Steel clothes locker SM-40-1. Locker with 1 door, 1 compartment, on the socle.	180x40x49 cm
76-40-2	Steel clothes locker with a bench SML-40-1. Locker with 1 door, 1 compartment, on the bench 40 cm high, made of wooden strips.	210x40x49 cm
76-50	Steel clothes locker SM-50-1. Locker with 1 door, 1 compartment, on the socle.	180x50x49 cm
76-50-2	Steel clothes locker with a bench SML-50-1. Locker with 1 door, 1 compartment, on the bench 40 cm high, made of wooden strips.	210x50x49 cm

Basic colours:

Light gray (RAL 7035), Blue (RAL 5010)

Other colours from RAL palette – surcharge 10%

Change of door colour - surcharge 7%



Double steel clothes locker

Functional and spacious locker for storing personal items and clothing. Locker with 2 doors, 2 compartments, on the socle or on the bench, made of wooden strips. Each compartment contains a shelf and hooks. The locker is also equipped with a lock. Locker works perfectly as a dressing room or back of the sports facility equipment.



Double clothes locker on the socle



Double clothes locker on the bench

Art. No.	Double steel clothes locker	Dimensions (HxWxD)
76-60	Steel clothes locker SM-60-2. Locker with 2 doors, 2 compartments, on the socle.	180x60x49 cm
76-60-2	Steel clothes locker with a bench SML-60-2. Locker with 2 doors, 2 compartments, on the bench 40 cm high, made of wooden strips.	210x60x49 cm
76-80	Steel clothes locker SM-80-2. Locker with 2 doors, 2 compartments, on the socle.	180x80x49 cm
76-80-2	Steel clothes locker with a bench SML-80-2. Locker with 2 doors, 2 compartments, on the bench 40 cm high, made of wooden strips.	210x80x49 cm

Basic colours:

Light gray (RAL 7035), Blue (RAL 5010)

Other colours from RAL palette – surcharge 10%

Change of door colour - surcharge 7%



Triple steel clothes locker

Functional and spacious locker for storing personal items and clothing. Locker with 3 doors, 3 compartments, on the socle or on the bench, made of wooden strips. Each compartment contains a shelf and hooks. The locker is also equipped with a lock. Locker works perfectly as a dressing room or back of the sports facility equipment.



Triple clothes locker on the socle

Triple clothes locker on the bench

Art. No.	Triple steel clothes locker	Dimensions (HxWxD)
76-90	Steel clothes locker SM-90-3. Locker with 3 doors, 3 compartments, on the socle.	180x90x49 cm
76-90-2	Steel clothes locker with a bench SML-90-3. Locker with 3 doors, 3 compartments, on the bench 40 cm high, made of wooden strips.	210x90x49 cm
76-120	Steel clothes locker SM-120-3. Locker with 3 doors, 3 compartments, on the socle.	180x120x49 cm
76-120-2	Steel clothes locker with a bench SML-120-3. Locker with 3 doors, 3 compartments, on the bench 40 cm high, made of wooden strips.	210x120x49 cm

Basic colours:

Light gray (RAL 7035), Blue (RAL 5010)

Other colours from RAL palette – surcharge 10%

Change of door colour - surcharge 7%



Steel clothes lockers with L-type doors

Locker with 2 doors (2 compartments) or 4 doors (4 compartments), on the socle or on the bench, made of wooden strips. Practical L-shaped compartments guarantee an optimum use of space.



Clothes locker with L-type doors on the socle

Clothes locker with L-type doors on the bench

Art. No.	Steel clothes lockers with L-type doors	Dimensions (HxWxD)
76-41	Steel clothes locker with L-type doors SM-40-2L. Locker with 2 doors, 2 compartments, on the socle.	180x40x49 cm
76-41-2	Steel clothes locker with L-type doors and a bench SML-40-2L. Locker with 2 doors, 2 compartments, on the bench 40 cm high, made of wooden strips.	210x40x49 cm
76-81	Steel clothes locker with L-type doors SM-80-4L. Locker with 4 doors, 4 compartments, on the socle.	180x80x49 cm
76-81-2	Steel clothes locker with L-type doors and a bench SML-80-4L. Locker with 4 doors, 4 compartments, on the bench 40 cm high, made of wooden strips.	210x80x49 cm

Basic colours:

Light gray (RAL 7035), Blue (RAL 5010)

Other colours from RAL palette – surcharge 10%

Change of door colour - surcharge 7%



Steel safe locker with 2 compartments

Safe locker with 2 doors, containing two compartments, provides an excellent balance between effective using of the space and functionality. Recommended as a place to store clothing and keep personal items. Each compartment is equipped with hooks for clothes and with a lock.



Safe locker with 2 compartments on the socle



Safe locker with 2 compartments on the bench

Art. No.	Steel safe locker with 2 compartments	Dimensions (HxWxD)
76-32	Steel safe locker SM-30-2S. Locker with 2 doors, 2 compartments, on the socle.	180x30x49 cm
76-32-2	Steel safe locker with a bench SML-30-2S. Locker with 2 doors, 2 compartments, on the bench 40 cm high, made of wooden strips.	210x30x49 cm
76-42	Steel safe locker SM-40-2S. Locker with 2 doors, 2 compartments, on the socle.	180x40x49 cm
76-42-2	Steel safe locker with a bench SML-40-2S. Locker with 2 doors, 2 compartments, on the bench 40 cm high, made of wooden strips.	210x40x49 cm

Basic colours:

Light gray (RAL 7035), Blue (RAL 5010)

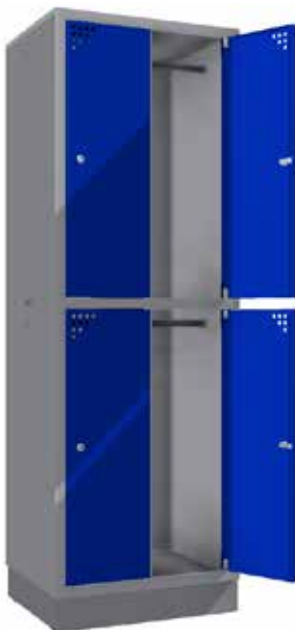
Other colours from RAL palette – surcharge 10%

Change of door colour - surcharge 7%



Steel safe locker with 4 compartments

Safe locker with 4 doors, containing four compartments, provides an excellent balance between effective using of the space and functionality. Recommended as a place to store clothing and keep personal items. Each compartment is equipped with hooks for clothes and a lock.



Safe locker with 4 compartments on the socle



Safe locker with 4 compartments on the bench

Art. No.	Steel safe locker with 4 compartments	Dimensions (HxWxD)
76-62	Steel safe locker SM-60-4S. Locker with 4 doors, 4 compartments, on the socle.	180x60x49 cm
76-62-2	Steel safe locker with a bench SML-60-4S. Locker with 4 doors, 4 compartments, on the bench 40 cm high, made of wooden strips.	210x60x49 cm
76-82	Steel safe locker SM-80-4S. Locker with 4 doors, 4 compartments, on the socle.	180x80x49 cm
76-82-2	Steel safe locker with a bench SML-80-4S. Locker with 4 doors, 4 compartments, on the bench 40 cm high, made of wooden strips.	210x80x49 cm

Basic colours:

Light gray (RAL 7035), Blue (RAL 5010)

Other colours from RAL palette – surcharge 10%

Change of door colour - surcharge 7%



Steel safe locker with 6 compartments

Safe locker with 6 doors, containing six compartments, provides an excellent balance between effective using of the space and functionality. Recommended as a place to store clothing and keep personal items. Each compartment is equipped with hooks for clothes and a lock.



Safe locker with 6 compartments on the socle



Safe locker with 6 compartments on the bench

Art. No.	Steel safe locker with 6 compartments	Dimensions (HxWxD)
76-92	Steel safe locker SM-90-6S. Locker with 6 doors, 6 compartments, on the socle.	180x90x49 cm
76-92-2	Steel safe locker with a bench SML-90-6S. Locker with 6 doors, 6 compartments, on the bench 40 cm high, made of wooden strips.	210x90x49 cm

Basic colours:

Light gray (RAL 7035), Blue (RAL 5010)

Other colours from RAL palette – surcharge 10%

Change of door colour - surcharge 7%



Steel locker for sport equipment SM-150-2P

Steel locker for sport equipment, with the sliding doors, lockable safety compartment, adjustable shelves, section for sticks and poles, hooks and a container.

Dimensions: 200x150x50 cm (HxWxD).

76-01-150



Metal shelter for locker room

Metal shelter for locker room, combining the advantages of the bench, rack and safety compartment. The open design, with wooden strips inside and double hangers, provides enough space for clothing and garments.

Integrated lockable safety compartments allow safe storage of personal items.

76-80-3 Dimensions: 180x80x41 cm **76-60-3** Dimensions: 180x60x41 cm

Storage shelves

Storage shelves with dimensions of 200x100x40 cm. Metal frame, shelves made of laminated board. Other sizes available on special request.



7-50

Stand for balls

Stand for balls, stationary or mobile (equipped with wheels), made of powder coated metal pipes. Horizontally adjustable shelves allow for adjusting the width to balls of every kind. Dimensions: 140x140x40 cm.



7-03 Stationary stand for balls



7-02 Mobile stand for balls

Lockable trolley for balls

Lockable trolley for storing balls, made of metal pipes. Portable, protected by powder coating. Dimensions: 100x70x70 cm.



7-01

Bars trolley for balls

7-52

Solid portable trolley for storing balls, made of metal bars, powder coated in blue. Equipped with lockable flap. Dimensions: 80x60x48 cm.



Podium for winners

Made of steel profiles, with side metal plates and platforms made of corrugated metal sheets. Three-level podium, marked with the numbers 1 - 3 (referring to the number of top three results).



19-17 Podium for winners on the steel structure



19-17-2 Foldable podium

19-17-5 Foldable podium for winners team

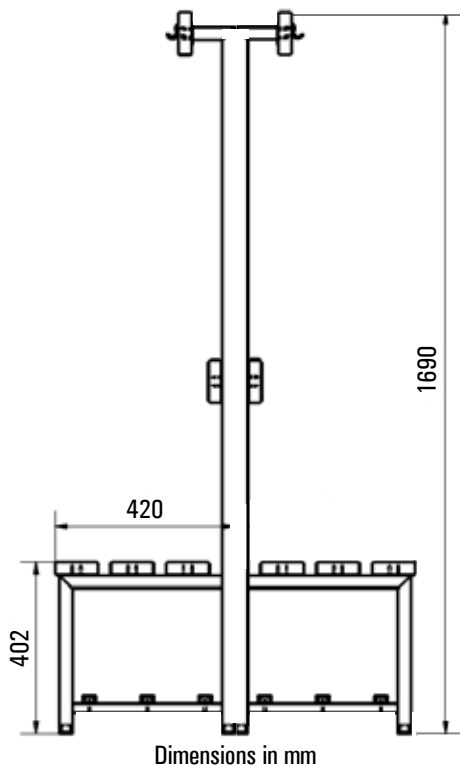
Bench with hangers for locker room (one- or two-sided)

The structure of the bench with hangers is made of powder coated steel profiles. The seat is made of varnished wooden slats. Height of the bench – 40 cm, width of the seat – 40 cm.

The bench with hangers is equipped with the shelf for shoes (made of steel profiles), the backrest and strip with hangers in a spacing of 15 cm.

All steel elements are powder coated in blue (RAL 5010) as a standard. Other colours from the available pallet obtainable on special request.

The length of the structure is adapted to the dimensions of the locker room.



7-14

Bench with hangers for locker room, one-sided

7-15

Bench with hangers for locker room, two-sided



All hangers and benches for locker room are equipped with double handles



Free-standing clothes rack, two-sided

The structure of the rack is made of powder coated steel profiles.

Two-sided wooden strip is equipped with hangers on both sides, allowing for the practical use of space, in which the rack is placed.

Wide feet provide stability of the structure.

7-14-8





Benches for locker room

The structure of the bench for locker room or for the corridor is made of powder coated steel profiles. The seat is made of varnished wooden slats. The bench is equipped with the shelf for shoes.

The length of the bench is adjusted to the dimensions of the room. Height – 40 cm, width – 40 cm.

7-11



Hanger for locker room, fixed to the wall on a wooden strip

Hanger is fixed directly to the wall on a wooden strip and is equipped with double hangers.

7-12-2



Hanger for locker room, fixed to the wall on a metal frame

Made of powder coated steel profiles. The structure is fixed directly to the wall and is equipped with double hangers.



7-12





Cleaning kit

Cleaning kit, available in single and double version. Durable and resistant to damage. Steel tube construction (available options: chromed or powder coated).

Set contains:

- 20 l bucket (double version: 2 pcs.)
- Basket (single version)
- Press for wring the mop
- Containers – 3 pcs.
- 120 l bag holder

	Single kit	Art. No.		Double kit	Art. No.
1	Chromed kit	ZS.01.20 CH	1	Chromed kit	ZS.02.20 CH
2	Powder coated kit	ZS.01.20 M	2	Powder coated kit	ZS.02.20 M



Trolley for waste

Available in single and double version, galvanized or powder coated.

Single trolley	Art. No.
Galvanized	W.01.120 O
Powder coated	W.01.120 M

Double trolley	Art. No.
Galvanized	W.02.120 O
Powder coated	W.02.120 M



Trolley for cleaning

Powder coated or chromed trolley for cleaning, Available with one or two buckets. Rubber wheels provide easy and comfortable use. The attached press allows accurately wring the mop.

Set contains:

- 20 l bucket (double version: 2 pcs.)
- Basket (single version)
- Press for wring the mop

Single trolley	Art. No.	Double trolley	Art. No.
Chromed	W.01.20 CH	Chromed	W.02.20 CH
Powder coated	W.01.20 M	Powder coated	W.02.20 M



Professional cleansing agents

Cleaners for professional cleaning and preservation of sports surfaces, available in 10 l containers.

Type	Art. No.
Stripper 250	L.25010
Strapa Sport 463	L.46310
Combidur 210	L.21010

Mops for cleaning

Cotton mop (flat or string). Cotton mop, holder and aluminum handle in the set. Available in various versions.

We also offer exchangeable ends for mop.



Type and length of the set	Art. No.
String mop	M.01
Flat mop 40 cm	M.02
Flat mop 50 cm	M.03
Swing mop 40 cm	M.04
Swing mop 50 cm	M.05
Gathering mop 80 cm	M.06



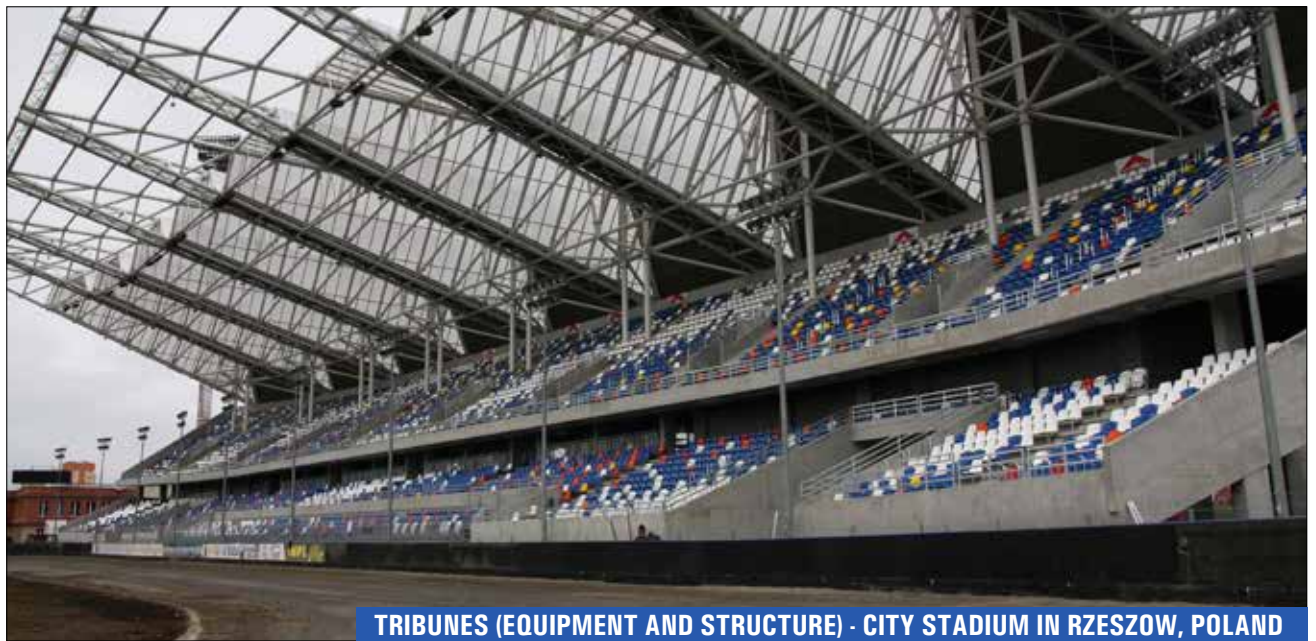
FOOTBALL GOALS - NATIONAL STADIUM IN WARSAW, POLAND



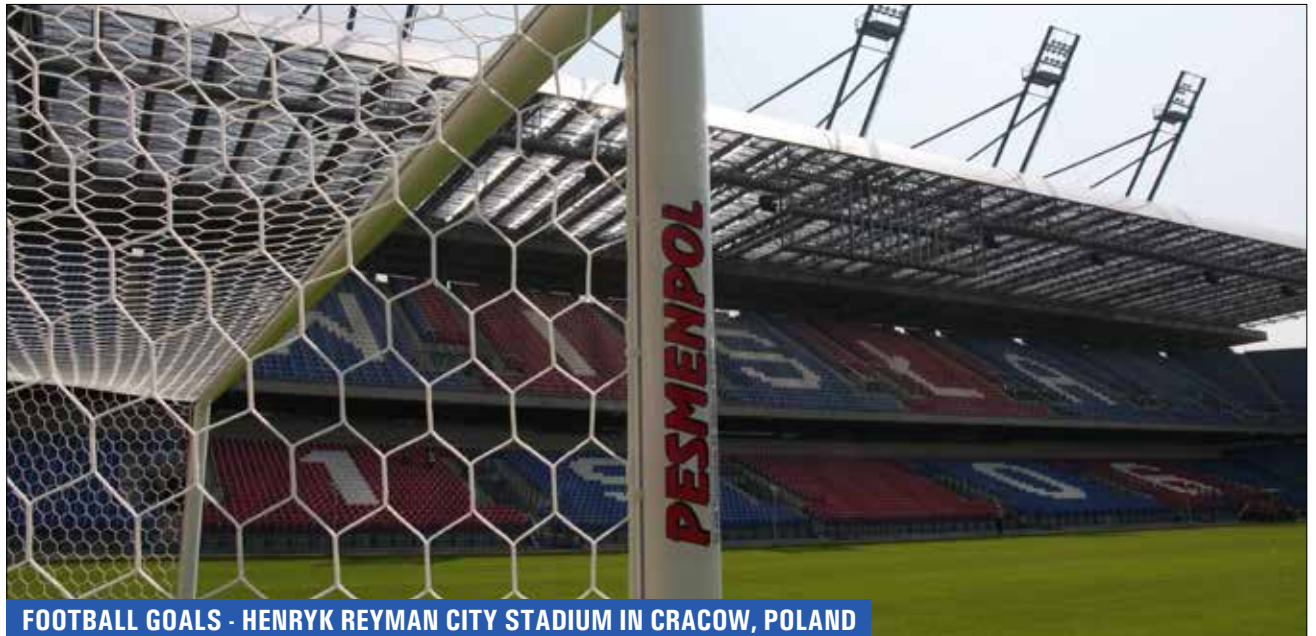
AMERICAN FOOTBALL GOALS - NATIONAL STADIUM IN WARSAW, POLAND



FOOTBALL GOALS - CITY STADIUM IN POZNAN, POLAND



TRIBUNES (EQUIPMENT AND STRUCTURE) - CITY STADIUM IN RZESZOW, POLAND



FOOTBALL GOALS - HENRYK REYMAN CITY STADIUM IN CRACOW, POLAND



TRIBUNES - SPORTS FIELD IN WIELICZKA, POLAND



SPORTS EQUIPMENT - SPORTS HALL IN ZAKOPANE, POLAND



SPORTS EQUIPMENT - SPORTS HALL IN STASZOW, POLAND



SPORTS EQUIPMENT - SPORTS HALL IN TRINEC, CZECH REPUBLIC

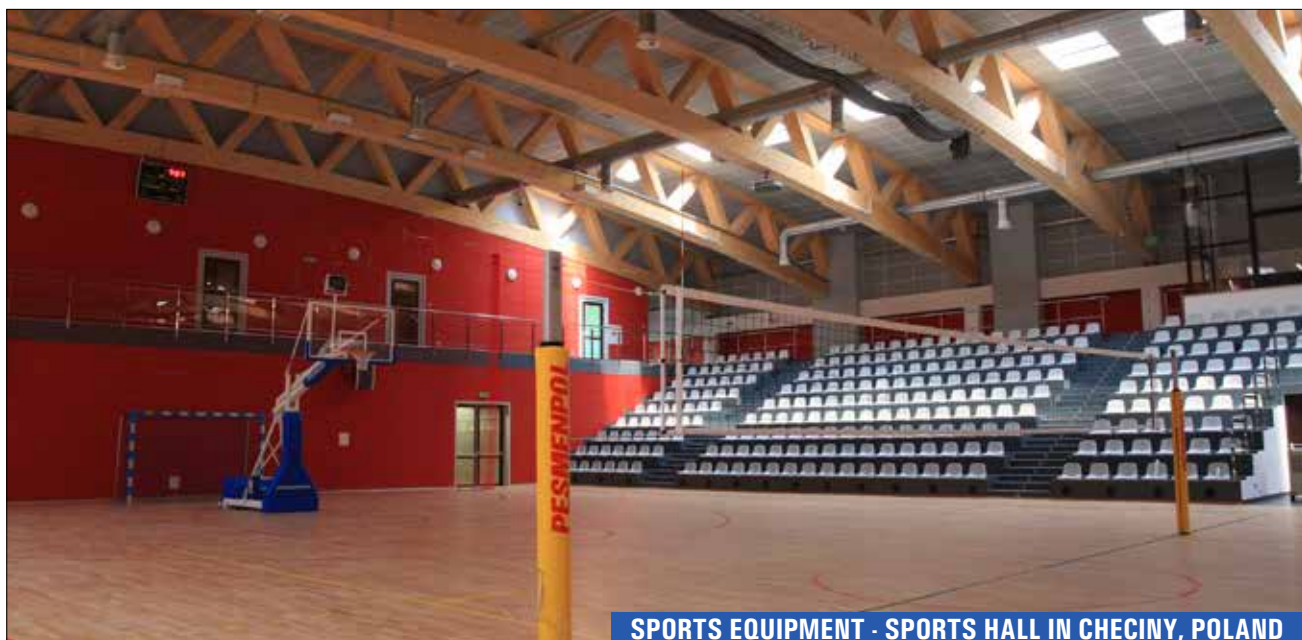


GENERAL CONTRACTOR: MORIS-POLSKA

SPORTS EQUIPMENT - SPORTS HALL IN WOLA UHRUSKA, POLAND



SPORTS EQUIPMENT - SPORTS HALL IN ZALASEWO, POLAND



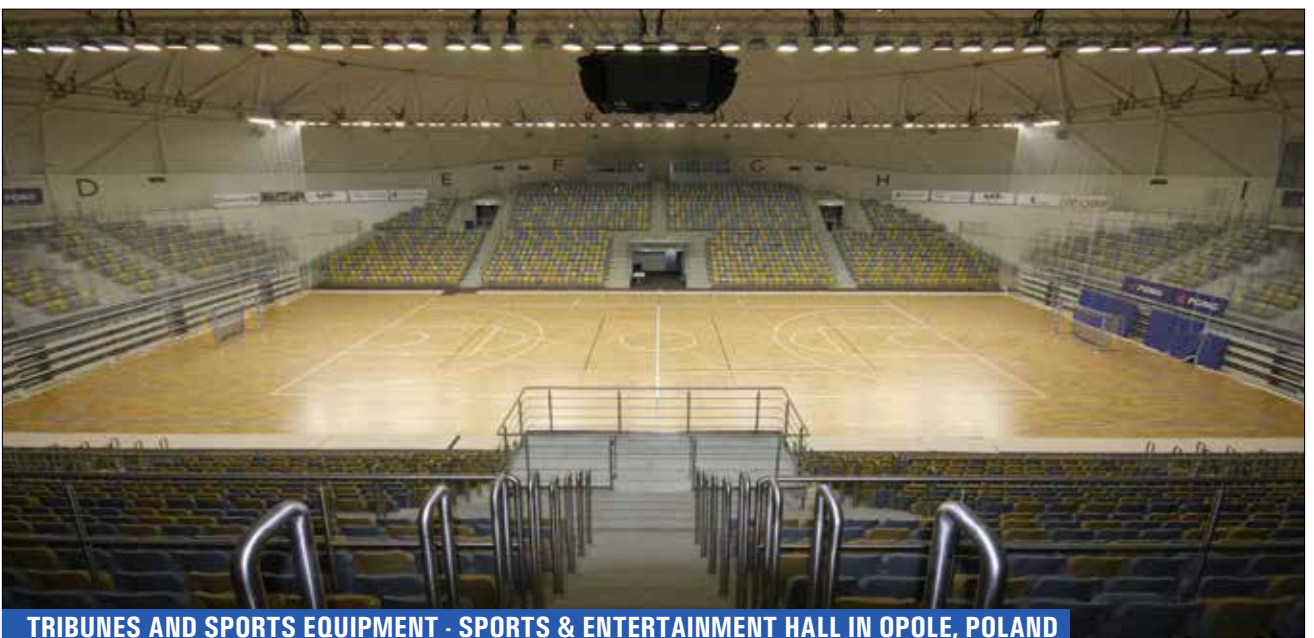
SPORTS EQUIPMENT - SPORTS HALL IN CHECINY, POLAND



SPORTS EQUIPMENT - SPORTS HALL IN PIESTANY, SLOVAKIA



TRIBUNES - ENTERTAINMENT HALL IN LUBIN, POLAND



TRIBUNES AND SPORTS EQUIPMENT - SPORTS & ENTERTAINMENT HALL IN OPOLE, POLAND



SPORTS EQUIPMENT · SPORTS HALL IN PLOTY, POLAND



TRIBUNES · SPORTS HALL IN LIBRAMINT, BELGIUM

BASIC COLOURS FROM AVAILABLE RAL PALETTE



RAL 1023
yellow



RAL 2004
orange



RAL 3020
red



RAL 5010
blue



RAL 5015
blue



RAL 6005
green



RAL 6029
green



RAL 7016
anthracite



RAL 7024
graphit



RAL 7035
light gray



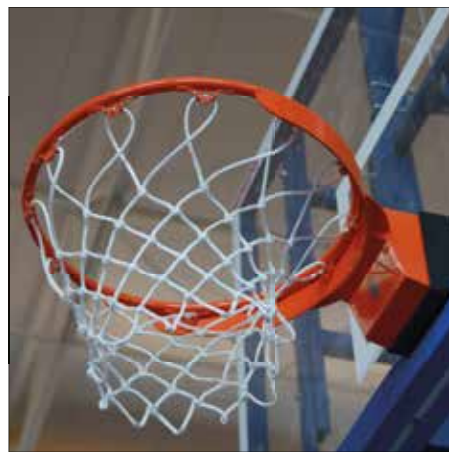
RAL 9005
black



RAL 9016
white



How do we do it...



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