
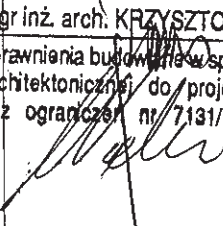




archimedia
ARCHITEKCI & INŻYNIEROWIE

EGZ. NR 5

OBIEKT	ROZBUDOWA I PRZEBUDOWA SZKOŁY W ZENDKU	
LOKALIZACJA	Zendek ul. Główna 126a	
INWESTOR	URZĄD GMINY OŻAROWICE 42-625 OŻAROWICE, UL. DWORCOWA 15	
NAZWA I ADRES JEDNOSTKI PROJEKTOWANIA	 archimedia ARCHITEKCI & INŻYNIEROWIE 60-361 POZNAŃ UL. WOLSZTYŃSKA 4 tel./fax (0-61) 867 17 17	
RODZAJ OPRACOWANIA	PROJEKT WYKONAWCZY - PROJEKT ARANŻACJI I WYPOSAŻENIA SALI GIMNASTYCZNEJ	
BRANŻA	ARCHITEKTURA	
ZESPÓŁ PROJEKTOWY ARCHITEKTURA	Główny projektant: mgr inż. arch. Krzysztof Janus nr upr. arch. 7131/10/P/2005 Opracowanie: mgr inż. arch. Bartłomiej Nazdrowicz	mgr inż. arch. KRZYSZTOF JANUS uprawnienia budowlane w specjalności architektonicznej do projektowania bez ograniczeń nr 7131/10/P/2005 
MIEJSCE, DATA OPRAC.	POZNAŃ, PAŹDZIERNIK 2006 r.	

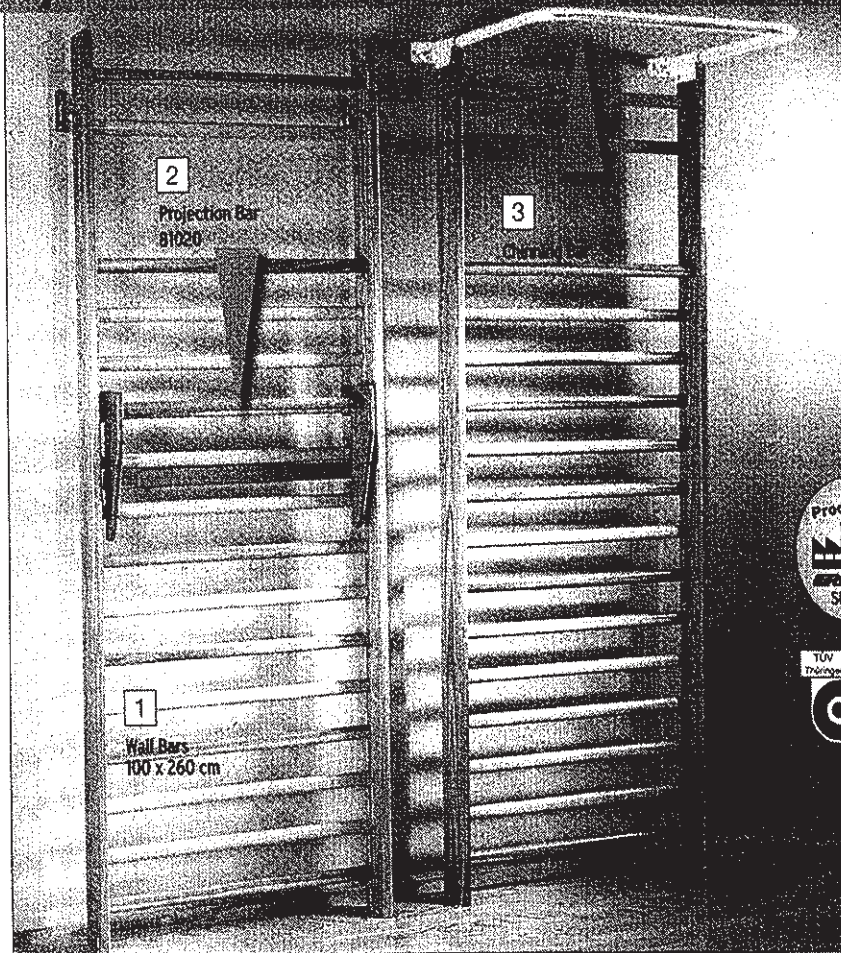
Oświadczam, że niniejsza dokumentacja projektowa została wykonana zgodnie z umową, zasadami współczesnej wiedzy technicznej, obowiązującymi w tym zakresie przepisami i normami i że została wykonana w stanie kompletnym z punktu widzenia celu, któremu ma służyć.

mgr inż. arch. KRZYSZTOF JANUS
uprawnienia budowlane w specjalności architektonicznej do projektowania bez ograniczeń nr 7131/10/P/2005

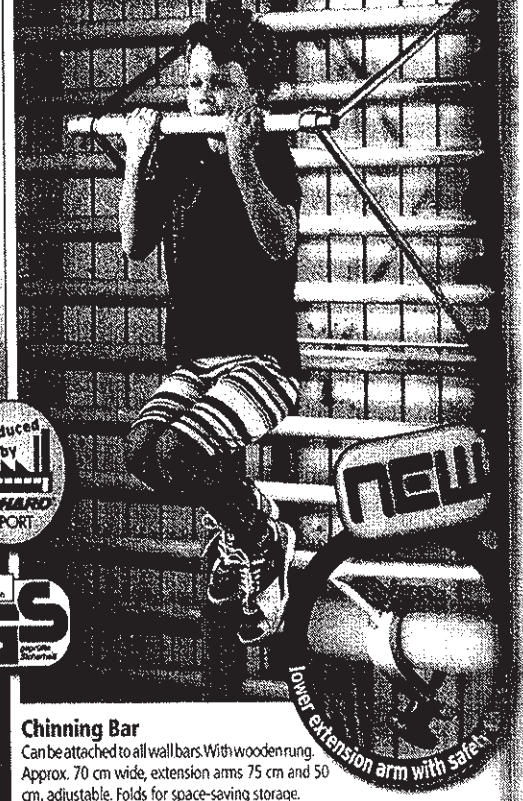
.....
PROJEKTANT

CZEŚĆ RYSUNKOWA

Gymnastics Wall Bars



Chinning Bar



Chinning Bar

Can be attached to all wall bars. With wooden rung. Approx. 70 cm wide, extension arms 75 cm and 50 cm, adjustable. Folds for space-saving storage. New: lower extension arm incl. safety shackle with screw locks. 15005

1 Wall Bars

For heavy-duty use in gyms, therapy rooms and fitness studios. Strong softwood sides, oval shaped ashwood rungs, complete with hardware for wall and floor attachment. 15000 size 100 x 260 cm (w x h)

2 Projection Bar

Made of ashwood, oval. Can be attached to wall bars. 81020 for items 15000 and 15020. 81022 for items 82760 and 82761

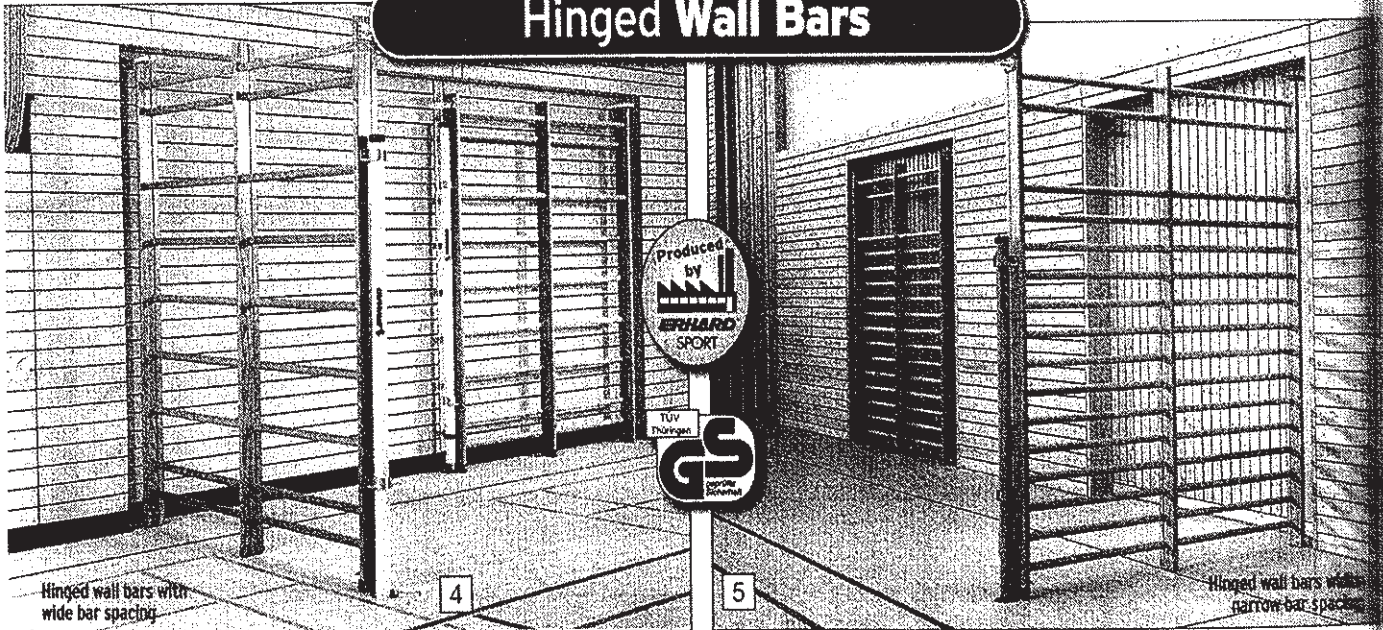
3 Chinning Bar for Wall Bars

Tubular steel construction, white powder coated. Can be attached to the sides of wall bars or the wall. 15001 for item 15000. 15002 for item 15020. 15004 for item 82760 and 82761

Double Field Wall Bars

Ideal for heavy-duty use in gyms and therapy rooms. Softwood frame with oval ashwood rungs. Supplied with galvanized wall and floor fixings. 15020 size 200 x 260 cm (w x h) (not shown)

Hinged Wall Bars



Hinged wall bars with wide bar spacing

4 Hinged Wall Bars Wide bar spacing.

200 x 260 cm double field wall bars (10 bars). The frame is manufactured from first grade softwood. The oval ashwood bars are screwed to the frame. The locating pole is locked in place by means of aluminium clamps to avoid accidental unlocking. Supplied with non-marking casters. Wall fixings are included. Please specify the turning direction (to the left or to the right). 15200

5 Hinged Wall Bars Narrow bar spacing.

200 x 260 cm double field wall bars. The frame is manufactured from first grade softwood. The oval ashwood bars are screwed to the frame. The locating pole is locked in place by means of aluminium clamps to avoid accidental unlocking. Supplied with non-marking casters. Wall fixings are included. Please specify the turning direction (to the left or to the right). 15201

Steel Ground Socket

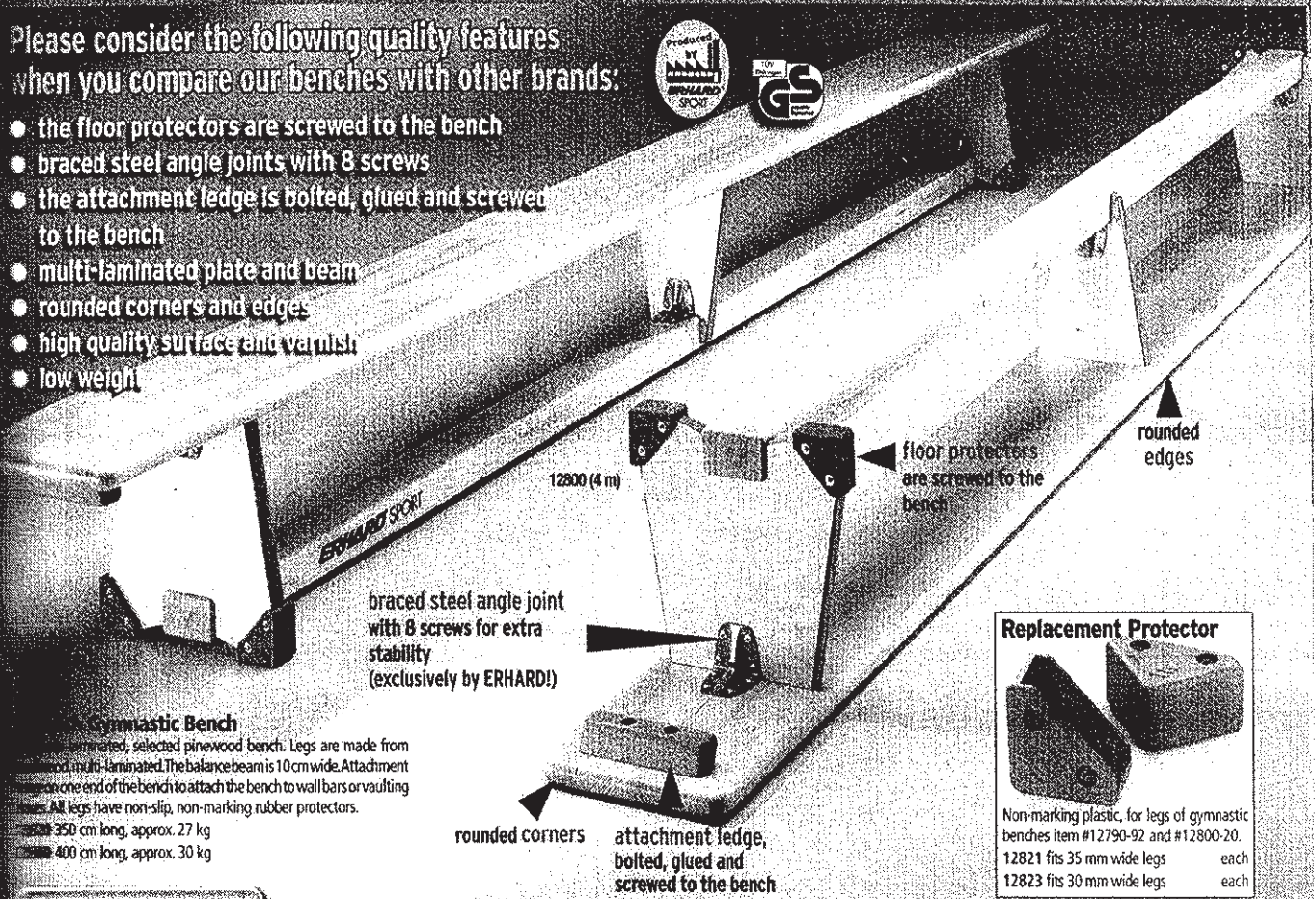
Grey cast iron, surface with CORR-I-DUR coating. Supplied with bevel. 15250

Lid Frame

Manufactured from light metal which does not corrode. The lid is made from synthetic material and is supplied with a self-locking mechanism. Lid diameter: 150 mm, inner diameter: 126 mm. 15270

Please consider the following quality features when you compare our benches with other brands:

- the floor protectors are screwed to the bench
- braced steel angle joints with 8 screws
- the attachment ledge is bolted, glued and screwed to the bench
- multi-laminated plate and beam
- rounded corners and edges
- high quality surface and varnish
- low weight

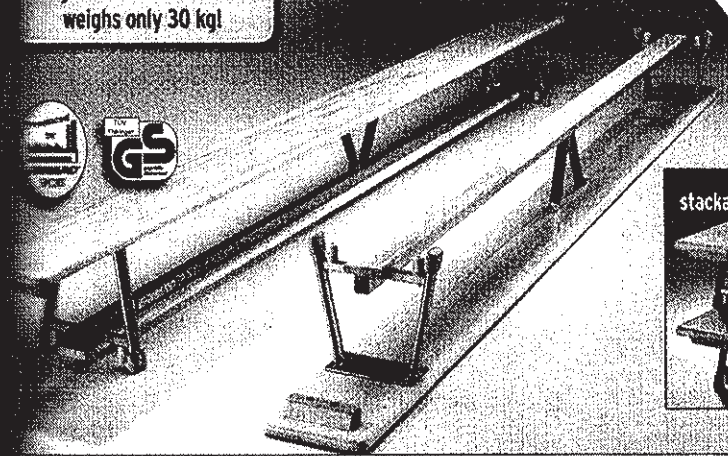


Gymnastic Bench

Laminated, selected pinewood bench. Legs are made from wood, multi-laminated. The balance beam is 10 cm wide. Attachment ledge on one end of the bench to attach the bench to wall bars or vaulting bars. All legs have non-slip, non-marking rubber protectors.

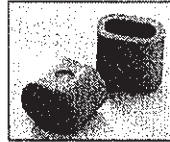
- 350 cm long, approx. 27 kg
- 400 cm long, approx. 30 kg

Our wooden gymnastic benches are considerably lighter. The 4 m bench weighs only 30 kg!



Stackable Gymnastic Bench

Beam made from steel tube with wooden top. The legs made from oval tubing have plastic protectors and rubber buffers so the benches can be stacked. The plate is made from 24 mm laminated pinewood and supplied with an attachment ledge. The bench is 350 cm long, 27 cm wide and 31 cm high. Weight: 31 kg, 12830 350 cm long, 12831 spare casters for benches built after 1997

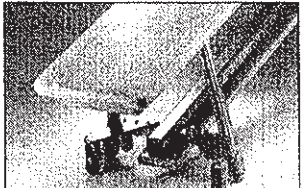


Replacement Protector
Made from non-marking plastic material, fits items #12830, and #12832.
12822 each

Replacement Protector



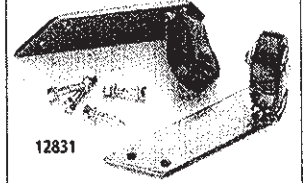
Non-marking plastic, for legs of gymnastic benches item #12790-92 and #12800-20.
12821 fits 35 mm wide legs each
12823 fits 30 mm wide legs each



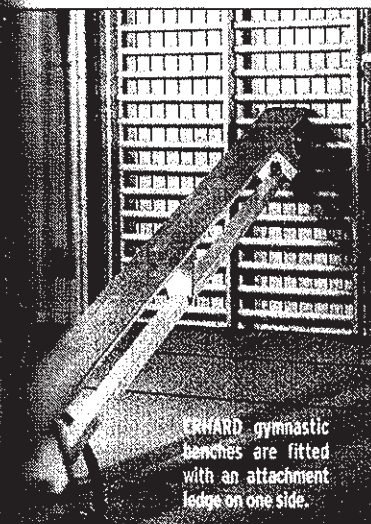
Gymnastic Bench

Identical to item #12830 but with casters at one end for easy transport.
12832

Casters as Conversion Kit



12831



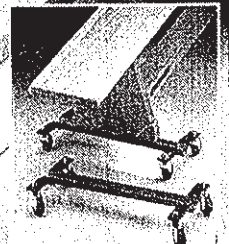
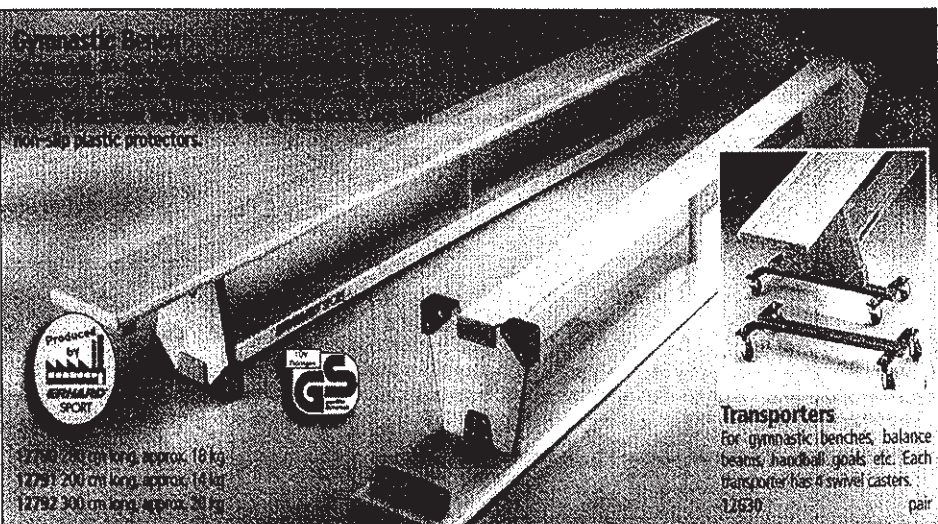
ERHARD gymnastic benches are fitted with an attachment ledge on one side.

Gymnastic Bench

non-slip plastic protectors



12790 200 cm long, approx. 16 kg
12791 200 cm long, approx. 16 kg
12792 300 cm long, approx. 20 kg



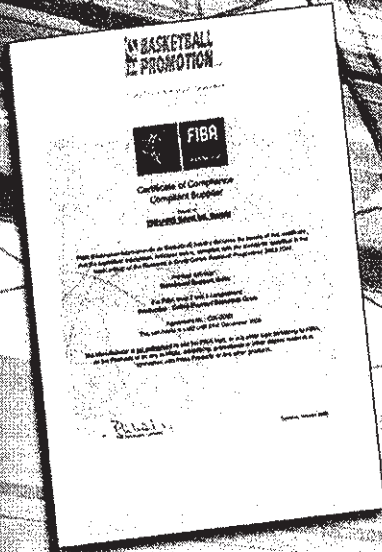
Transporters

For gymnastic benches, balance beams, handball goals, etc. Each transporter has 4 swivel casters.
12830 pair

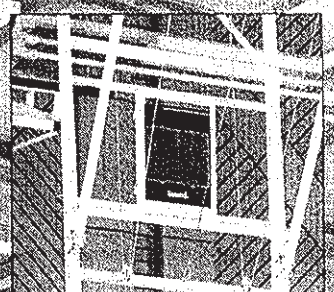
Basketball Structure

**Retractable,
Ceiling-Mounted**

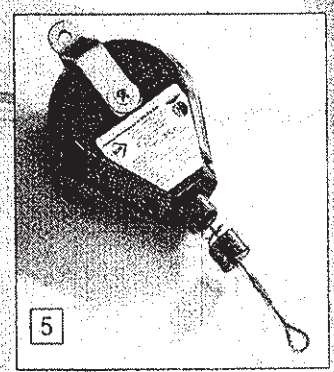
WITH FIBA CERTIFICATE OF COMPLIANCE



For the structural engineer:
 Load capacity for ceiling-mounted basketball structures:
 Test load according to EN 1270:
 $F_x = 900\text{ N}$
 $F_y = 3200\text{ N}$
 $F_z = 900\text{ N}$
 Dead load: 3000 N



Basketball system with integrated 24 second display available on request, against surcharge.



- Ultra-strong retractable steel construction
- Minimum vibration
- Safety-glass backboard
- BREAKAWAY basketball goal
- Backboard and goal are mounted directly to the attachment frame (fixed to ceiling structure)
- Backboard padding complies with the latest regulations.

1 Ceiling-Mounted Basketball Structure
 Complies with FIBA regulations. Reinforced tubular construction, retractable backward foldable, with ringed stabilizing frame. Suspension height up to max. 7.8 m. Metal parts powder-coated. Without backboard frame, backboard, goal and net.
 each

2 Backboard 180 x 105 cm
 12 mm single pane safety glass with splinterproof foil, with glass cutout according to governing regulations. Marginal mounting holes for fastening hardware set #5938301. Weight approx. 55 kg.
 each

3 Attachment Frame for Backboard and Goal For connecting the ceiling structure with the backboard as well as for fixing the goal.
 Made from tubular steel.
 each

3 Basketball Backboard Padding
 Complies with FIBA regulations. Suits backboard #59387 with attachment frame #59193. PE foam coated with hard-wearing vinyl-coated nylon (available in blue, red, yellow or green). Metal inserts with mounting holes so the padding can be screwed to the tubular steel backboard frames. Supplied with special glue. 59189 for 70 mm backboards (FIBA).
 each

4 Basketball Goal FLEXMATIC OFFICIAL
 Competition goal, meets all international standards set by FIBA. Conforms to EN 1270. Suitable for 180 x 105 cm backboards as well as for traditional backboards. Continuous welded steel braces support a high strength ring. Powder-coated. Comes complete with mounting hardware.
 59442 without net
 each

Electrical Winch
 With pre-connected drive for heavy-duty loads. Supplied with built-in limit switches and steel shaft with pulleys. Mains supply: 400 V-0.37 KW. Electrical connection, wires and switches to be provided by customer.
 59486
 each

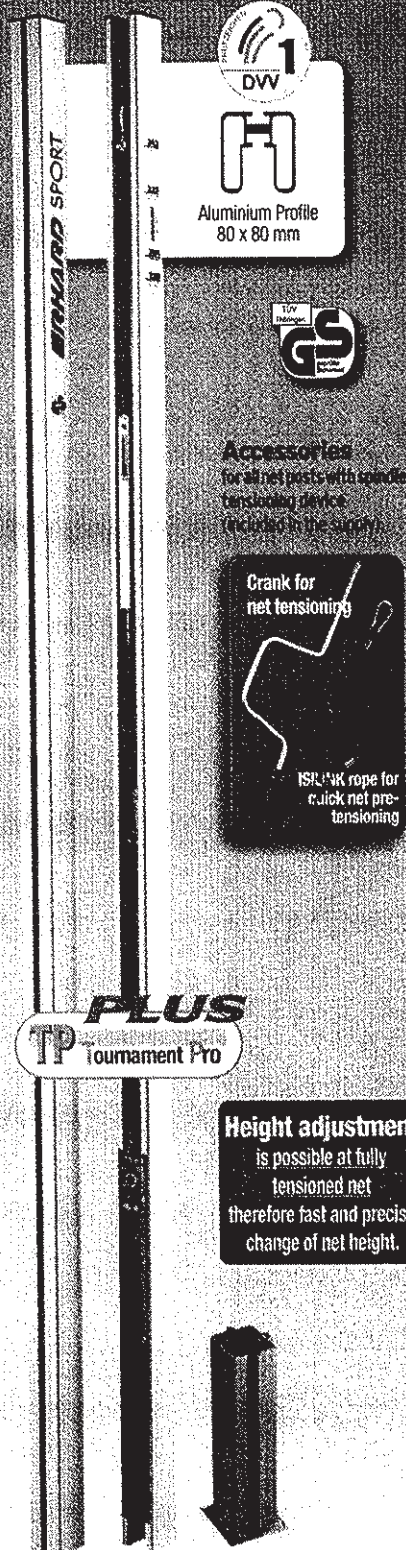
5 Crash Protection Device
 For retractable basketball ceiling structures. Operates automatically. Prevents the basketball structures from falling in the event of cable breakages. Including cable.
 for suspension height under 7 m
 59516
 each
 for suspension height above 7 m
 59517
 each

- References:**
- Feuchtwangen/Germany
 - Halle/Saale/Germany
 - Jena-Lobeda/Germany
 - Neubrandenburg/Germany
 - Dudelande (Luxembourg)
 - German School New York

The ceiling substructures for ceiling-mounted basketball goals have to be provided by the customers.

For basketball nets please refer to page 142 and 144
 For basketballs please see page 12-15

Volleyball Net Posts



DW 1
Aluminium Profile
80 x 80 mm



Accessories
for steel posts with spindle
tensioning device
(included in the price)



TP PLUS
Tournament Pro

Height adjustment
is possible at fully
tensioned net
therefore fast and precise
change of net height.

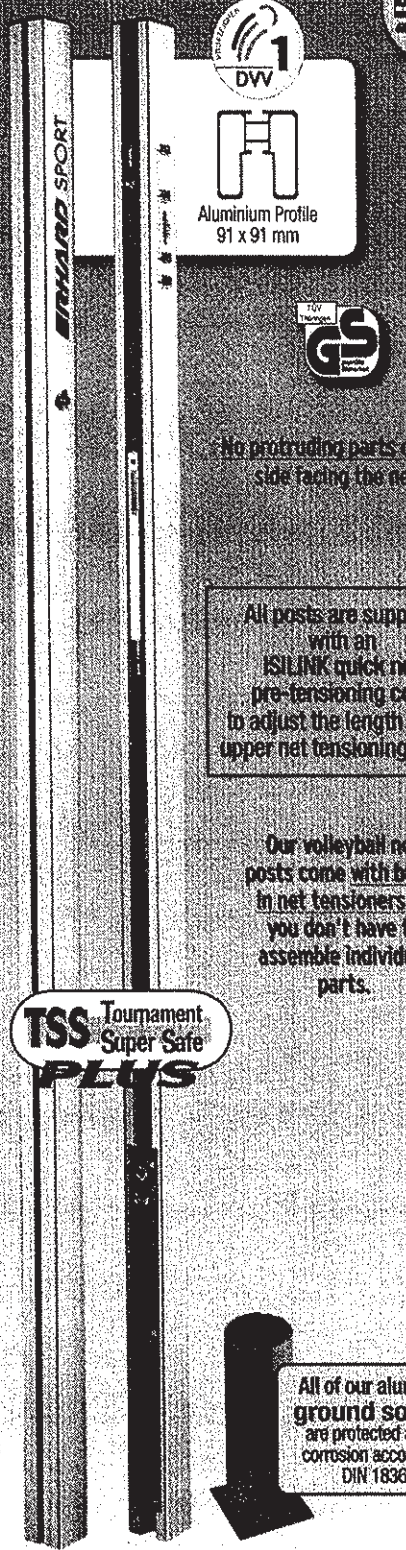


recommended ground socket
#15302 shown on page 126.

EN 1271

80 x 80 mm Volleyball Net Posts TP Plus With Spindle Tensioning System

Posts are made from special anodized aluminium alloy. The post with tensioner weighs approx. 17 kg. The net tensioning system is completely integrated into the profile channel of the post. Spindle tensioner with removable crank for high safety. **NEW:** upper pulley with special plastic deflection roller for improved sliding. The ball-bearing bevel gear for the crank is fitted with a safety clutch to prevent overtorquing. The net is easily and continuously height-adjustable when fully tensioned. Innovative fine adjustment system for net centering cords. Supplied without ground sockets and without lids. 56888 pair



DW 1
Aluminium Profile
91 x 91 mm



No protruding parts on the
side facing the net.

All posts are supplied
with an
ISILINK quick net
pre-tensioning cord
to adjust the length of the
upper net tensioning cable.

Our volleyball net
posts come with built-
in net tensioners so
you don't have to
assemble individual
parts.

TSS PLUS
Tournament Super Safe

All of our aluminium
ground sockets
are protected against
corrosion according to
DIN 18360.



recommended ground socket
#15300 shown on page 126.

EN 1271

91 x 91 mm Volleyball Net Posts TSS Plus With Spindle Tensioning System

Posts are made from special anodized aluminium alloy. The post with tensioner weighs approx. 18 kg. The net tensioning system is completely integrated into the profile channel of the post. Spindle tensioner with removable crank for high safety. **NEW:** upper pulley with special plastic deflection roller for improved sliding. The ball-bearing bevel gear for the crank is fitted with a safety clutch to prevent overtorquing. The net is easily and continuously height-adjustable when fully tensioned. Innovative fine adjustment system for net centering cords. Supplied without ground sockets and without lids. 56882 pair

New volleyball net posts for existing ground sockets? No problem with our strong steel adapters. Diameter and insert depth have to be min. 76 x 270 mm.

Basically, all volleyball net posts manufactured by us can be fitted with adapters for existing ground sockets. Before order acceptance the local conditions at site have to be known to us.

NOTE: net posts with adapters can only be a compromise, since in most cases the adapter piece has a smaller diameter than the post profile, so it is not possible to guarantee the same features as for posts with continuous profile.

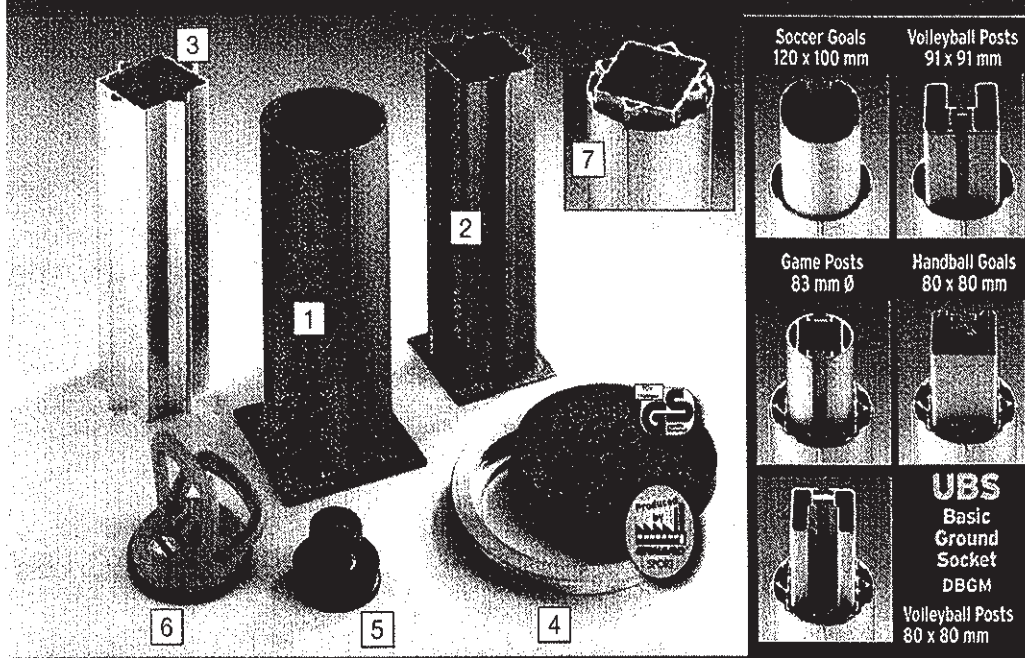
Volleyball Net Posts With Adapters

- 80 x 80 mm Volleyball Net Posts with Adapters*
 - 56884 model TP pair
 - 56881 model TP Plus pair
- 91 x 91 mm Volleyball Net Posts with Adapters*
 - 56866 model TSS pair
 - 56864 model TSS Plus pair
- Ø 90 mm Volleyball Net Posts with Adapters*
 - 56853 model TSS Super Safe pair
- Ø 120 x 100 mm Volleyball Net Posts with Adapters*
 - 56854 model TSP Super Pro pair

*) Before order placing you will receive a dimension sheet from us in which you specify the insert depth and diameter of the existing ground sockets.

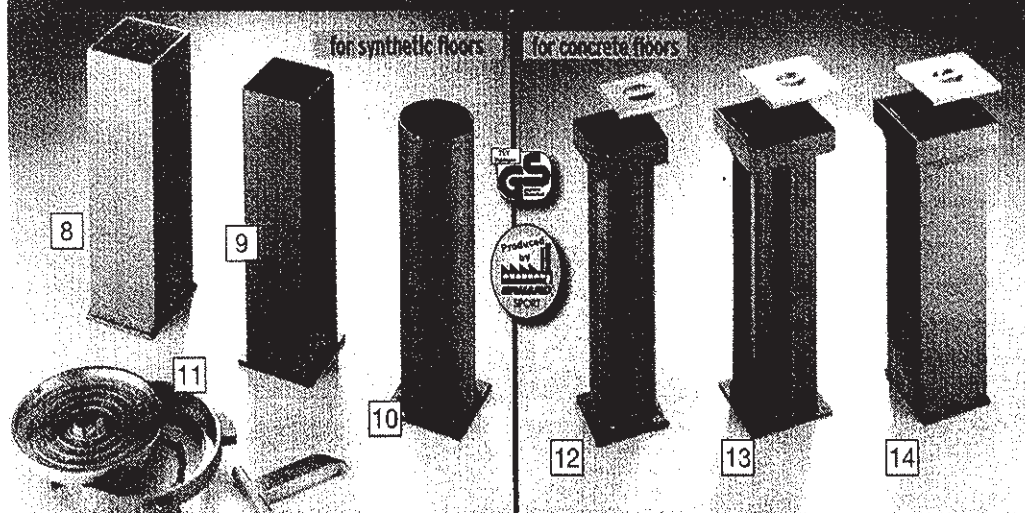
Ground Sockets

Indoor Ground Sockets Aluminium, Corrosion-Resistant as per DIN 18360



- 1 UBS Basic Aluminium Ground Socket 1**
For 91 x 91 mm and 120 x 100 mm oval posts.
15300 each
- 2 UBS Basic Aluminium Ground Socket 2**
For Ø 83 mm posts and 80 x 80 mm posts.
15302 each
- 3 UBS Aluminium Adapter Socket**
For Ø 83 mm and 80 x 80 mm posts.
15301 each
- 4 Ground Socket Cover**
For sprung floor (light metal flange and plastic lid).
14570 each
- 5 Sucker Grip, Rubber**
To lift ground socket lids.
11685 each
- 6 Sucker Grip**
Same as above, with hinged handles, carrying force: 30 kg
11686 each
- 7 Universal Ground Socket System, Aluminium**
For 91 x 91 mm and 120 x 100 mm posts as, including adapter socket for 80 x 80 mm and Ø 83 mm posts.
15305 set

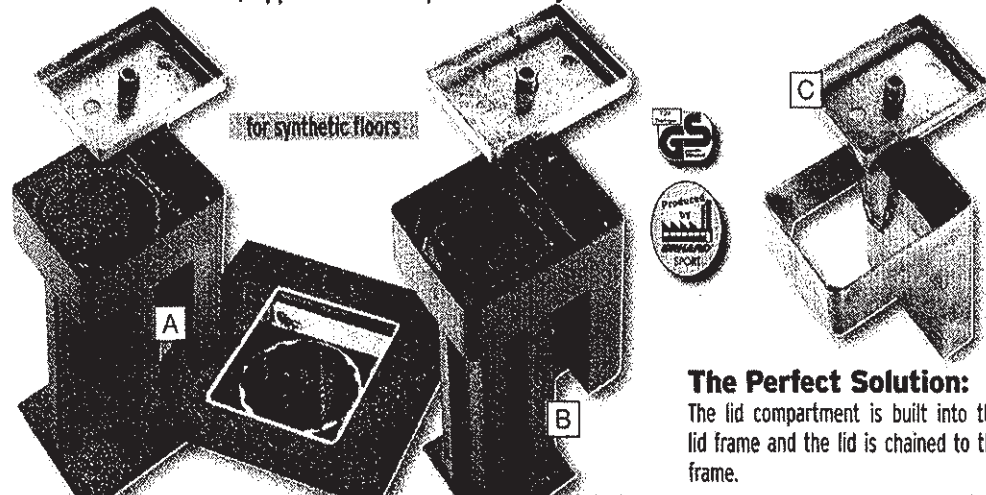
Outdoor Ground Sockets Aluminium, Corrosion-Resistant as per DIN 18360



- 8 Aluminium Ground Socket**
Square socket, suitable for 91 x 91 mm posts. Fits universal ground socket lid #58481.
56876 lid to be ordered separately each
- 9 Aluminium Ground Socket**
Square socket, suitable for 80 x 80 mm posts. Fits universal ground socket lid #58481.
56139 lid to be ordered separately each
- 10 Aluminium Ground Socket**
Round socket, suitable for Ø 83 mm posts. Fits universal ground socket lid #58481.
56859 lid to be ordered separately each
- 11 Universal Ground Socket Lid**
Cast aluminium. Suitable for all ground sockets with a clear diameter of up to 180 mm. The lid has to be plastic-laminated. Supplied with flange, lid and chain.
58481 each
- 12 Round Aluminium Ground Socket**
For Ø 83 mm posts, including square lid frame and light metal lid, complete.
56871 each

With Lid Compartment Aluminium, Corrosion-Resistant as per DIN 18360

UBS Basic Aluminium Ground Socket, built-in lid frame with vertical lid compartment, the lid is chained to the socket (supplied without sports flooring).



- 13 Square Aluminium Ground Socket**
Suitable for 80 x 80 mm and Ø 83 mm posts, including square lid frame and light metal lid, complete.
56879 each
- 14 Square Aluminium Ground Socket**
Suitable for 91 x 91 mm posts, including square lid frame and light metal lid, complete.
56873 each
- A UBS Basic Ground Socket 1**
For 91 x 91 mm and 120 x 100 mm oval posts. Comes with vertical lid compartment. The lid is chained to the socket (supplied without sports flooring).
15310 each
- B UBS Basic Ground Socket 2**
For Ø 83 mm posts and 80 x 80 mm posts. Comes with vertical lid compartment. The lid is chained to the socket (supplied without sports flooring).
15311 each
- C Lid Compartment, Only for Retrofitting**
Cast aluminium, built into the lid frame and chained to the socket (supplied without sports flooring).
15312 each

The Perfect Solution:

The lid compartment is built into the lid frame and the lid is chained to the frame.

Multiflex M

Data Sheet

Description	Polyethylene film. Tarfoam PU 1500 foam. Combination floating plywood floor, completely loose laid. Multi-ply floor, consisting of a 3.6 mm solid wood wear layer (3 pieces per batten) glued on offset wood lathing, High strength Proteco Sport® or unvarnished on request.
Available wood	Beech, Oak, Maple
Destination	Wood Sportflooring over floating multi-ply base with a continuous resilient sub-layer, area elastic system.
Compatible sub-bases	Concrete, hot-applied asphalt and asphalt screed, anhydrite screed ; the evenness of the sub-base (3 mm under a 2 m straight edge) shall be checked before installation starts. Any defects shall be made good before the system is installed
Total Thickness	38 mm ± 2 mm
Chocks absorption Force Reduction	NF P 90 104 = 33 G DIN 18032-2 = 57 %
Slipperiness Polyethylene Film Tarfoam 1500 Tarflex	NF P 90 106 = 84 4 x 64,5 ml = 258 m ² - weight = 25,8 kg 25 ml x 2,05 ml = 51 m ² - weight = 61 kg 2440 mm x 310 mm x 9 mm packaged 8 units = 6,0 m ² = 41 kg
Boards	2525 mm x 188 mm x 13,6 mm packaged 5 boards = 2,37 m ² - 18,5 kg.
Fire resistance	Euroclass : C _{fl} -S1
Warranty	5 years
Maintenance	According to maintenance instructions
Laying instructions	According to laying instructions
Conformity	NF P 90 203 - DIN 18032-2

We reserve the right to modify these specifications without, however, affecting their compliance with standards