

Impact Protection Slab

Product Data Sheet no. 9301 - R-05

Issue: January 2018

EUROFLEX® Elastic Slabs are used as fall-impact protection surfacing in conformance with EN 1177:2008, EN 1176-1:2008 for fall heights up to 3,0m and under outdoor playground equipment in accordance with DIN EN 16630:2015-06 for fall heights 1,0 m up to 2,30 m or as elastic surfacing slabs on school recess areas. Conditionally resistant to spiked golf shoes or edge trim. Easy and inexpensive to install – with excellent dimensional stability due to integrated connector pins and interlocking masonry-style installation. EUROFLEX® Elastic Slabs are manufactured by an environment-friendly process and can be recycled as process raw material at the end of their service life. They can be played on under almost any weather conditions.

Material

Material:

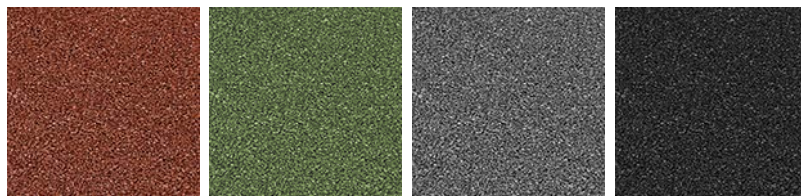
granulated recycled rubber

Binding agent: MDI polyurethane

Product design

Colours: red, green, grey or black (minor colour variations and/or fading possible.)

Colours:



SBR red, SBR green, SBR grey, SBR black

Surface: smooth with open pores

Lower side: dimple-textured (for drainage)

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Dimensions / Tolerances / Weight

Dimensions [mm] / weight **30 mm** / 1.00 m / ca. 5.2 kg
[kg] / max. fall height [m]: **40 mm** / 1.20 m / ca. 6.5 kg
50 mm / 1.50 m / ca. 7.5 kg
60 mm / 1.70 m / ca. 9.0 kg
70 mm / 2.10 m / ca. 10.4 kg
80 mm / 2.30 m / ca. 12.0 kg
60+20 mm Softsystem / 2.60 m / ca. 9.3 kg
70+20 mm Softsystem / 3.00 m / ca. 10.7 kg

Dimensions [mm]:
500 x 500
500 x 250
1.000 x 500 (only for 40/50 mm)

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Product Testing

General Information:	Production facility inspection
Permissible fall height:	in accordance with DIN EN 1177:2008, EN 1177:2008
HIC 1000:	in accordance with ASTM 1292-2004 DIN EN 1176-1:2008, EN 1176-1:2008
Abrasion resistance:	rV 5,9 (DIN 18035) BS 7188-4 Migration of certain elements in accordance with EN 71-3:2013 - passed
Fire resistance:	Class E (DIN EN 13501-1, 2010)
Tensile strength:	min. 0,75 N/mm ² EN-DIN-ISO 1798-2008 (DIN 53571)
Elongation at break:	approx. 40 % EN-DIN-ISO 1798-2008 (DIN 53571)
Chemical resistance:	conditionally resistant to acids and bases
Salt water resistance:	resistant in accordance with DIN EN ISO 175, DIN EN ISO 3386-2
UV resistance:	resistant in accordance with DIN EN 1297, DIN EN ISO 3386-2
Resistance to chlorine:	resistant in accordance with DIN EN ISO 175, DIN EN ISO 3386-2
Cold fracture resistance:	24h / -40°C, no fracture
Cold crack resistance:	5h / -30°C, no cracks
Skid resistance:	wet: 50,75, dry: 50 in accordance with ASTM E 303
Water permeability:	40 mm slab: 0,011 gpm/in ³ 70 mm slab: 0,015 gpm/in ³
Critical Radiant Heat Flux:	0,08 Watts/cm ³ in accordance with ASTM E 648/03

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Installation

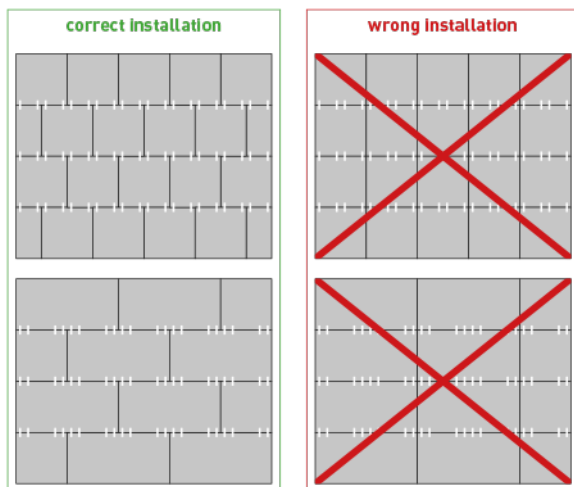
Pour level layer of lean concrete or crushed rock over frost-stable sub grade.

If the surface covered is an existing concrete or asphalt surface, take care to provide sufficient slope for water drain-off and level off any irregularities.

Use edge slabs and corner slabs around the surface to minimize the danger of stumping. Install the slabs in a masonry-type configuration, i.e. beginning every second row with a half slab. Insert connector pins fully into the receiving holes. To ensure secure placement, cement the crosswise joints of the first and the last row. The cement used should be a 1-component PU adhesive cement. Cut slabs to size using a powered sabre saw.

Note the complete Installation instruction

Installation picture:



Other

Other: plastic connector pins included

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