

1. Applications

EUROFLEX® Sports Pavement Slabs are the ideal surface for mini soccer, handball, volleyball, street ball, tennis conditionally resistant to spiked golf shoes or edge trim.

Test results for sport fields in accordance with DIN V 18035.

Easy and inexpensive to install – with excellent dimensional stability due to integrated connector pins and interlocking masonry-style installation.

EUROFLEX® Sports Pavement 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.

2. Material

Rubber granulate: granulated recycled rubber

Binding agent: coloured MDI polyurethane

3. Characteristics

Colour: red, green, grey or black
Minor colour variations and/or fading are possible.

Surface: smooth with open pores

Lower side: dimple-textured for drainage

Other facts: plastic connector pins included

4. Dimensions / Tolerances

L x W x T: 500 x 500 x 30 mm

Weight: 26,4 kg/m²

500 x 500 x 40 mm

1000 x 500 x 40 mm

Weight: 34,2 kg/m²

Dimensional tolerances: length, width: +/- 0,8 %, thickness: +/- 2 mm

5. Test Data

Production facility inspection

Permissible fall height: HIC 1000 in accordance EN 1177:2018, EN 1176-1:2017

Critical fall height 30mm: 0,9m

Critical fall height 40mm: 1,1m

Safety of toys: DIN EN 71-3

Migration of certain elements: Assessment: harmless

Testing of slip resistance; R 10 EN 16165

UV resistance: resistant in accordance with DIN EN 1297,
DIN EN ISO 3386-2

Resistance to chlorine: resistant in accordance with DIN EN 1297,
DIN EN ISO 3386-2

Salt water resistance: resistant in accordance with DIN EN 1297,
DIN EN ISO 3386-2

Testing according to DIN EN 14877:2013 Plastic surfaces for sports facilities

30mm slabs

Property	Test method	Testing conditions		Requirement	Results (mean value)
Slip resistance	EN 13036-4	(23 ± 2) °C	dry	80 – 110	106
			wet	55 – 110	56
Shock absorption	EN 14808	(23 ± 2) °C	dry	25 – 34 % 35 – 44 %	51 %
			After accelerated aging	45 – 70 %	52 %
Vertical deformation	EN 14809	(23 ± 2) °C	dry	≤ 6 mm	2.6 mm
Vertical ball behaviour	EN 12235	(23 ± 2) °C	dry	≥ 85 % (0.89 m)	100 %

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Each current and valid from can be recalled at www.kraiburg-relastec.com/euroflex

Property	Test method	Test conditions		Requirement	Results (mean value)
Water infiltration rate	EN 12616	(23 ± 2) °C	---	≥ 150 mm/h	9028 mm/h
Abrasion	EN ISO 5470-1	(23 ± 2) °C	Not aged	≤ 4.0 g	0.4 g
		After artificial weathering			0.4 g
Colour loss	EN ISO 20105-A02	After artificial weathering		≥ 3	4
Tensile properties	EN 12230	Not aged		Tensile Strength ≥ 0.4 MPa	1.426 MPa
		After accelerated aging			1.508 MPa
		Not aged		Elongation at break ≥ 40 %	103 %
		After accelerated aging			57 %
Thickness (absolute)	EN 1969 (Method A)	(23 ± 2) °C		≥ 10 mm	31.4 mm

Row	Parameter (extract / eluate)	Recommendations	Result	Test	
				Extraction / elution according to	Extraction / elution according to
1	DOC	≤ 50 mg/l ^a ≤ 100 mg/l ^a	15 mg/l ^e	7.1.2 und 7.1.3	7.1.5
2	EOX	≤ 100 mg/kg	12 mg/kg ^e	7.1.4.2	7.1.4.3
3	Lead (Pb)	< 0,025 mg/l	< 0.001 mg/l ^e	7.1.2	7.1.6
4	Cadmium (Cd)	≤ 0,005 mg/l	< 0.0003 mg/l ^e	7.1.2	7.1.6
5	Chromium (Cr) total	≤ 0,05 mg/l	< 0.001 mg/l ^e	7.1.2	7.1.6
6	Chromium VI (CrVI)	≤ 0,008 mg/l ^b	< 0.008 mg/l ^e	7.1.2	7.1.6
7	Mercury (Hg)	≤ 0,001 mg/l	< 0.001 mg/l ^e	7.1.2	7.1.6
8	Zinc (Zn)	≤ 0,5 mg/l ^c	0.02 mg/l ^e	7.1.2 und 7.1.3	7.1.6

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9	Tin (Sn)	≤ 0,04 mg/l	< 0.001 mg/l ^e	7.1.2	7.1.6
10	Odour	Describe	Typical	-	-
11	Surface appearance	Describe	Red	-	-
12	SCCP (C10-13)	< 1500 mg/kg	< 80 mg/kg ^e	7.1.7.1	7.1.7.1
13	MCCP (C14-17)	Determine ^d	< 80 mg/kg ^e	7.1.7.2	7.1.7.2
14	DEHP, BBP, DBP, DIBP	< 1000 mg/kg	13.4 mg/kg ^e < 1 mg/kg ^e 2.4 mg/kg ^e 1.8 mg/kg ^e	7.1.8	7.1.8
15	Other Phthalates	Determine ^d	< 1 mg/kg ^e	7.1.8	7.1.8

a Materials with a DOC content of more than 100 mg/l in an aqueous 24-h eluate (prepared according to 7.1.2) fail to meet these requirements (K.O. criterion). In cases where the DOC concentration in the 24-h eluate is in the range of > 50 mg/l to 100 mg/l, the limits stated for the 50 mg/l criterion for DOC in the 48-h eluate (prepared according to 7.1.3) can be used to assess conformity.

b Since the standardized spectrophotometry method (see DIN 38405-24) or ion chromatography (see DIN EN ISO 10304-3) can only determine Cr(VI) concentrations of ≥ 0.05 mg/l, only samples with total Cr contents of ≤ 0.008 mg/l meet this requirement. If this is not the case, proof that the Cr(VI) concentrations are ≤ 0.008 mg/l shall be provided by means of another, non-standardized method.

c Zinc contents of more than 1 mg/l in an aqueous 24-h eluate (prepared according to 7.1.2) fail to meet these requirements (a K.O. criterion). In cases where the zinc concentration in the 24-h eluate of elastic infill materials is in the range of > 0.5 mg/l to 1 mg/l, the limits stated for the 0.5 mg/l criterion for zinc in the 48-h eluate (prepared according to 7.1.3) can be used to assess conformity.

d Currently, no limit values for MCCPs (C14-C17) and phthalates, that are not listed under row 14, are specified. Concentration values shall be determined and recorded to gather experience with the materials.

e Reference: 122030923 dated 11.04.2022, Chemisches Laboratorium Dr. Stegemann

40mm slabs

Property	Test method	Testing conditions		Requirement	Results (mean value)
Slip resistance	EN 13036-4	(23 ± 2) °C	dry	80 – 110	106
			wet	55 – 110	56
Shock absorption	EN 14808	(23 ± 2) °C	dry	25 – 34 % 35 – 44 %	55 %
			After accelerated aging	45 – 70 %	52 %
Vertical deformation	EN 14809	(23 ± 2) °C	dry	≤ 6 mm	3.1 mm
Vertical ball behaviour	EN 12235	(23 ± 2) °C	dry	≥ 85 % (0.89 m)	100 %

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		After artificial weathering			0.4 g
Colour loss	EN ISO 20105-A02	After artificial weathering		≥ 3	4
Tensile properties	EN 12230	Not aged		Tensile Strength ≥ 0.4 MPa	1.011 MPa
		After accelerated aging			1.284 MPa
		Not aged		Elongation at break ≥ 40 %	105 %
		After accelerated aging			52 %
Thickness (absolute)	EN 1969 (Method A)	(23 ± 2) °C		≥ 10 mm	42.1 mm

Row	Parameter (extract / eluate)	Recommendations	Result	Test	
				Extraction / elution according to	Extraction / elution according to
1	DOC	≤ 50 mg/l ^a ≤ 100 mg/l ^a	15 mg/l ^e	7.1.2 und 7.1.3	7.1.5
2	EOX	≤ 100 mg/kg	12 mg/kg ^e	7.1.4.2	7.1.4.3
3	Lead (Pb)	< 0,025 mg/l	< 0.001 mg/l ^e	7.1.2	7.1.6
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5	Chromium (Cr) total	≤ 0,05 mg/l	< 0.001 mg/l ^e	7.1.2	7.1.6
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c Zinc contents of more than 1 mg/l in an aqueous 24-h eluate (prepared according to 7.1.2) fail to meet these requirements (a K.O. criterion). In cases where the zinc concentration in the 24-h eluate of elastic infill materials is in the range of > 0.5 mg/l to 1 mg/l, the limits stated for the 0.5 mg/l criterion for zinc in the 48-h eluate (prepared according to 7.1.3) can be used to assess conformity.

d Currently, no limit values for MCCPs (C14-C17) and phthalates, that are not listed under row 14, are specified. Concentration values shall be determined and recorded to gather experience with the materials.

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6. Installation

To rough acceptance inspection for the sub grade is recommended for installation the slabs. The sub grade must be planer, drainage able and stable compacted.

Paved surface (undrainable concrete, asphalt) must be level with a slope of least 2 % and must have adequate take-off drains.

Note the complete Installation instruction.