

**Tender Specification**

EUROFLEX® Sports Pavement Slabs are used in facilities for a wide range of sports and recreational activities. Successful applications include paved areas for football, basketball, street hockey, volleyball, generation spanning activity parks as well as peripheral surfacing around table-tennis tables.

Integrated connector pins permit easy and cost-efficient installation in a masonry-style configuration without need for gluing. The substructure can be a paved surface or firmly compacted aggregate material (not sand).

Line application on the surface is easy, allowing markings for all types of sports. Their high elasticity provides cushioning for players' ligaments and joints.



Colours:	red, green, black, grey
Dimensions [mm]	Weight [kg/unit]
500 x 500 x 30	approx. 6,6
500 x 500 x 40	approx. 8,5
1000 x 500 x 40	approx. 17,0

Tolerances:

Length, Width: +/- 0,8 %; thickness: +/- 2 mm



To be installed with:

EUROFLEX® edge and corner profiles

EUROFLEX® lawn edging

All information without guarantee, subject to change. The Tender Specification is not subject to any change service. Each current and valid from can be recalled at [www.kraiburg-relastec.com/euroflex](http://www.kraiburg-relastec.com/euroflex)

page 1 of 6

Manufacturer  
 KRAIBURG Relastec GmbH & Co.KG  
 Fuchsberger Str. 4, D-29410 Salzwedel  
 Tel.. +49/8683-701-145, Fax.: +49/8683-701-4-145

The equivalence is in accordance with technical prototype and following certificate verifiable. Manufactured by an environment-friendly process and can be recycled as raw material at the end of their service life.

Material: granulated recycled rubber and colored MDI polyurethane  
 Test: Production facility inspection  
 Permissible fall height: HIC 1000 in accordance with DIN EN 1177:2018, EN 1177:2018, DIN EN 1176-1:2017, EN 1176-1:2017  
 Safety of toys: DIN EN 71-3  
 Migration of certain elements: Assessment: harmless  
 Fire resistance: Class E DIN EN 13501-1, 2007  
 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  
 Salt water resistance: resistant in accordance with DIN EN ISO 175, 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 %

All information without guarantee, subject to change. The Tender Specification is not subject to any change service. Each current and valid from can be recalled at [www.kraiburg-relastec.com/euroflex](http://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 <sup>a</sup> ≤ 100 mg/l <sup>a</sup>	15 mg/l <sup>e</sup>	7.1.2 und 7.1.3	7.1.5
2	EOX	≤ 100 mg/kg	12 mg/kg <sup>e</sup>	7.1.4.2	7.1.4.3
3	Lead (Pb)	< 0,025 mg/l	< 0.001 mg/l <sup>e</sup>	7.1.2	7.1.6
4	Cadmium (Cd)	≤ 0,005 mg/l	< 0.0003 mg/l <sup>e</sup>	7.1.2	7.1.6
5	Chromium (Cr) total	≤ 0,05 mg/l	< 0.001 mg/l <sup>e</sup>	7.1.2	7.1.6
6	Chromium VI (CrVI)	≤ 0,008 mg/l <sup>b</sup>	< 0.008 mg/l <sup>e</sup>	7.1.2	7.1.6
7	Mercury (Hg)	≤ 0,001 mg/l	< 0.001 mg/l <sup>e</sup>	7.1.2	7.1.6
8	Zinc (Zn)	≤ 0,5 mg/l <sup>c</sup>	0.02 mg/l <sup>e</sup>	7.1.2 und 7.1.3	7.1.6

All information without guarantee, subject to change. The Tender Specification is not subject to any change service. Each current and valid from can be recalled at [www.kraiburg-relastec.com/euroflex](http://www.kraiburg-relastec.com/euroflex)

9	Tin (Sn)	≤ 0,04 mg/l	< 0.001 mg/l <sup>e</sup>	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 <sup>e</sup>	7.1.7.1	7.1.7.1
13	MCCP (C14-17)	Determine <sup>d</sup>	< 80 mg/kg <sup>e</sup>	7.1.7.2	7.1.7.2
14	DEHP, BBP, DBP, DIBP	< 1000 mg/kg	13.4 mg/kg <sup>e</sup> < 1 mg/kg <sup>e</sup> 2.4 mg/kg <sup>e</sup> 1.8 mg/kg <sup>e</sup>	7.1.8	7.1.8
15	Other Phthalates	Determine <sup>d</sup>	< 1 mg/kg <sup>e</sup>	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 %

All information without guarantee, subject to change. The Tender Specification is not subject to any change service. Each current and valid from can be recalled at [www.kraiburg-relastec.com/euroflex](http://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	8387 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	1.011 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 <sup>a</sup> ≤ 100 mg/l <sup>a</sup>	15 mg/l <sup>e</sup>	7.1.2 und 7.1.3	7.1.5
2	EOX	≤ 100 mg/kg	12 mg/kg <sup>e</sup>	7.1.4.2	7.1.4.3
3	Lead (Pb)	< 0,025 mg/l	< 0.001 mg/l <sup>e</sup>	7.1.2	7.1.6
4	Cadmium (Cd)	≤ 0,005 mg/l	< 0.0003 mg/l <sup>e</sup>	7.1.2	7.1.6
5	Chromium (Cr) total	≤ 0,05 mg/l	< 0.001 mg/l <sup>e</sup>	7.1.2	7.1.6
6	Chromium VI (CrVI)	≤ 0,008 mg/l <sup>b</sup>	< 0.008 mg/l <sup>e</sup>	7.1.2	7.1.6
7	Mercury (Hg)	≤ 0,001 mg/l	< 0.001 mg/l <sup>e</sup>	7.1.2	7.1.6
8	Zinc (Zn)	≤ 0,5 mg/l <sup>c</sup>	0.02 mg/l <sup>e</sup>	7.1.2 und 7.1.3	7.1.6

All information without guarantee, subject to change. The Tender Specification is not subject to any change service. Each current and valid from can be recalled at [www.kraiburg-relastec.com/euroflex](http://www.kraiburg-relastec.com/euroflex)

9	Tin (Sn)	≤ 0,04 mg/l	< 0.001 mg/l <sup>e</sup>	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 <sup>e</sup>	7.1.7.1	7.1.7.1
13	MCCP (C14-17)	Determine <sup>d</sup>	< 80 mg/kg <sup>e</sup>	7.1.7.2	7.1.7.2
14	DEHP, BBP, DBP, DIBP	< 1000 mg/kg	13.4 mg/kg <sup>e</sup> < 1 mg/kg <sup>e</sup> 2.4 mg/kg <sup>e</sup> 1.8 mg/kg <sup>e</sup>	7.1.8	7.1.8
15	Other Phthalates	Determine <sup>d</sup>	< 1 mg/kg <sup>e</sup>	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

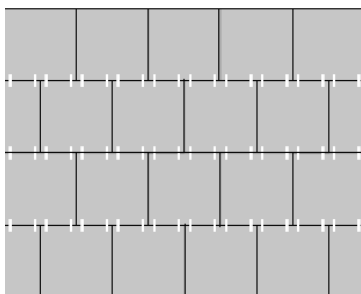
### Installation Instruction

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.

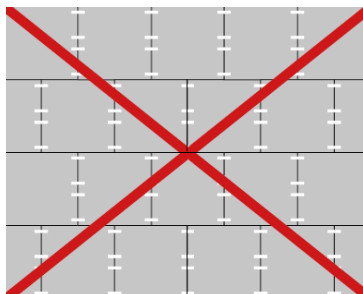
Paved surfaces (concrete, asphalt) must be level with a slope of least 2% and must have adequate take-off drains.

Note the complete Installation instruction.

**Correct: „T“-joints**



**Incorrect: „T“-joints  
Installed in line**



**Incorrect: cross joints**

