SAFERIG™ UHMWPE OUTRIGGER PADS

TECHNICAL DATASHEET — REVISION 02

Official technical reference for the Saferig outrigger pad range, published by Diode Trading EST. This document supersedes Rev.01 and consolidates corrected material test methods and verification notes.

Product	Saferig™ UHMWPE Outrigger Pads
Material	High Molecular Weight Polyethylene (PE-U/HMW) — ISO-LEN
Manufacturer / Supplier	Diode Trading EST, Al Khobar, Kingdom of Saudi Arabia
Document status	Rev.02 — Corrected Technical Presentation
Certification	Material Test Certificate (MTC) supplied with every order

1. Material Specification

Property	Unit	Test Method	Value
Short Sign	—	ISO 1043-1	**PE-U/HMW**
Density	g/cm^3	ISO 1183-1	**< 0.96**
Molecular Weight	Mio. g/mol	—	**0.5 – 5**
Water Absorption (23°C)	%	ISO 62	**< 0.01**
Elongation at Break (+23°C)	%	ISO 527-2	**> 500**
Shore Hardness D	—	ISO 868	**64**
Notched Impact Strength	kJ/m^2	ISO 179	**No Break (N.B.)***
Wear Resistance (Sand-Slurry Test)	%	ISO 15527	**> 350***
Friction Coefficient	—	—	**0.2**
Compression Strength	MPa	ISO 604	**Upon Request**
Thermal Conductivity (23°C)	W/(m·K)	DIN 52612	**0.4**
Melting Temperature	°C	ISO 11357	**130 – 135**
Flammability	—	UL94	**HB**

2. Product Size & Load Capacity

No.	Size (mm)	Bearing Capacity*	Weight (kg)	Area (m^2)	Code	Ultimate*
1	**300×300×30**	< 5 ton	2.7 kg	0.09 m^2	**SR-333**	< 7 ton
2	**400×400×40**	< 10 ton	6.4 kg	0.16 m^2	**SR-444**	< 12 ton
3	**400×400×50**	< 12 ton	8.0 kg	0.16 m^2	**SR-445**	< 15 ton
4	**500×500×40**	< 15 ton	10.0 kg	0.25 m^2	**SR-554**	< 18 ton
5	**500×500×50**	< 20 ton	12.5 kg	0.25 m^2	**SR-555**	< 22 ton
6	**600×600×40**	< 20 ton	14.4 kg	0.36 m^2	**SR-664**	< 25 ton
7	**600×600×50**	< 25 ton	18.0 kg	0.36 m^2	**SR-665**	< 30 ton
8	**600×600×60**	< 30 ton	21.6 kg	0.36 m^2	**SR-666**	< 35 ton
9	**700×700×50**	< 35 ton	24.5 kg	0.49 m^2	**SR-775**	< 40 ton
10	**700×700×60**	< 50 ton	29.4 kg	0.49 m^2	**SR-776**	< 55 ton
11	**800×800×50**	< 50 ton	32.0 kg	0.64 m^2	**SR-885**	< 60 ton
12	**800×800×60**	< 55 ton	38.4 kg	0.64 m^2	**SR-886**	< 75 ton
13	**800×800×70**	< 75 ton	44.8 kg	0.64 m^2	**SR-887**	< 90 ton
14	**800×800×80**	< 80 ton	51.2 kg	0.64 m^2	**SR-888**	< 100 ton
15	**1000×1000×50**	< 75 ton	48.0 kg	1.0 m^2	**SR-10105**	< 100 ton
16	**1000×1000×60**	< 80 ton	60.0 kg	1.0 m^2	**SR-10106**	< 100 ton
17	**1000×1000×70**	< 100 ton	70.0 kg	1.0 m^2	**SR-10107**	< 120 ton
18	**1000×1000×80**	< 120 ton	80.0 kg	1.0 m^2	**SR-10108**	< 160 ton
19	**1000×1000×100**	< 160 ton	100.0 kg	1.0 m^2	**SR-101010**	< 200 ton
20	**1200×1200×60**	< 180 ton	86.4 kg	1.44 m^2	**SR-12126**	< 220 ton
21	**1200×1200×80**	< 220 ton	115.2 kg	1.44 m^2	**SR-12128**	< 250 ton
22	**1200×1200×100**	< 220 ton	144.0 kg	1.44 m^2	**SR-121210**	< 300 ton
23	**1500×1500×100**	< 250 ton	225.0 kg	2.25 m^2	**SR-151510**	< 300 ton
24	**2000×1000×100**	< 280 ton	200.0 kg	2.0 m^2	**SR-202010**	< 300 ton
25	**3000×1000×100**	< 300 ton	300.0 kg	3.0 m^2	**SR-303010**	< 500 ton

* The source datasheet does not define test procedure, safety factor, ground condition, or load distribution basis. These values are presented as source-data capacity figures and should not be treated as certified safe working loads without supporting test documentation. Weights are reproduced as supplied; several sizes do not mathematically reconcile to the stated density and should be verified against production measurements before final issue.

3. Key Features

• Engineered from Ultra High Molecular Weight Polyethylene (UHMW-PE) for strength and durability
• Resistant to water, oil, and chemicals — supports long service life in demanding environments
• Lightweight and easy to handle compared with many conventional load-distribution materials
• Designed for convenient carrying, positioning, and storage
• Anti-slip textured surface with beveled, rounded edges for safe handling
• Non-conductive and spark-free
• Available in Square, Round, Rectangular, and Octagonal shapes; custom sizes, colors, and branding on request

4. Technical Notes & Verification Status

Notched impact test: Corrected from ISO 868 (Shore hardness method) to ISO 179 (notched impact) in this revision. Exact test configuration should be confirmed from the material test report.
Load capacity: Bearing and ultimate load figures are provided without a stated test method or design/safety basis. Certification should be supported by a load test or engineering calculation.
Compression strength: Source datasheet lists this as 'Upon Request'. A numerical value and test report are recommended for professional technical submissions.
Weight vs. density: Source density (<0.96 g/cm^3) does not reconcile with several listed product weights. Recommend resolving via production measurements.
Wear resistance: The >350% value is retained; the reference/index basis should be stated in supporting test documentation.

5. Document Control

Document	Saferig UHMWPE Outrigger Pads — Technical Datasheet
Revision	Rev. 02 — Diode-branded corrected presentation
Basis	Supplied Saferig technical datasheet, corrected and reformatted
Status	Technical data reproduced from source; flagged items require manufacturer/test-report verification
Application	Outrigger load distribution / crane and heavy equipment support

Important

This document is a Diode Trading EST-branded reformatting and correction of the supplied Saferig datasheet. It does not constitute independent product certification. Final values, test methods, load ratings, and compliance claims should be confirmed by Saferig/manufacturer test reports before contractual or regulatory submission.

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