

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	2.58 kg	0.09 m ²	SR-333	< 7 ton
2	400×400×40	< 10 ton	6.11 kg	0.16 m ²	SR-444	< 12 ton
3	400×400×50	< 12 ton	7.64 kg	0.16 m ²	SR-445	< 15 ton
4	500×500×40	< 15 ton	9.55 kg	0.25 m ²	SR-554	< 18 ton
5	500×500×50	< 20 ton	11.94 kg	0.25 m ²	SR-555	< 22 ton
6	600×600×40	< 20 ton	13.75 kg	0.36 m ²	SR-664	< 25 ton
7	600×600×50	< 25 ton	17.19 kg	0.36 m ²	SR-665	< 30 ton
8	600×600×60	< 30 ton	20.63 kg	0.36 m ²	SR-666	< 35 ton
9	700×700×50	< 35 ton	23.40 kg	0.49 m ²	SR-775	< 40 ton
10	700×700×60	< 50 ton	28.08 kg	0.49 m ²	SR-776	< 55 ton
11	800×800×50	< 50 ton	30.56 kg	0.64 m ²	SR-885	< 60 ton
12	800×800×60	< 55 ton	36.67 kg	0.64 m ²	SR-886	< 75 ton
13	800×800×70	< 75 ton	42.78 kg	0.64 m ²	SR-887	< 90 ton
14	800×800×80	< 80 ton	48.90 kg	0.64 m ²	SR-888	< 100 ton
15	1000×1000×50	< 75 ton	47.75 kg	1.0 m ²	SR-10105	< 100 ton
16	1000×1000×60	< 80 ton	57.30 kg	1.0 m ²	SR-10106	< 100 ton
17	1000×1000×70	< 100 ton	66.85 kg	1.0 m ²	SR-10107	< 120 ton
18	1000×1000×80	< 120 ton	76.40 kg	1.0 m ²	SR-10108	< 160 ton
19	1000×1000×100	< 160 ton	95.50 kg	1.0 m ²	SR-101010	< 200 ton
20	1200×1200×60	< 180 ton	82.51 kg	1.44 m ²	SR-12126	< 220 ton
21	1200×1200×80	< 220 ton	110.02 kg	1.44 m ²	SR-12128	< 250 ton
22	1200×1200×100	< 220 ton	137.52 kg	1.44 m ²	SR-121210	< 300 ton
23	1500×1500×100	< 250 ton	214.88 kg	2.25 m ²	SR-151510	< 300 ton
24	2000×1000×100	< 280 ton	191.00 kg	2.0 m ²	SR-202010	< 300 ton
25	3000×1000×100	< 300 ton	286.50 kg	3.0 m ²	SR-303010	< 500 ton

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 Rev.02. 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 ($<0.96 \text{ g/cm}^3$) 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 test methods, load ratings, and compliance claims should be confirmed by Saferig/manufacturer test reports before contractual or regulatory submission.

Issued by Diode Trading EST

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