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SafeRig
OUTRIGGER PADS

ENGINEERING CRANE OUTRIGGER PADS





CONTENTS

P3. ABOUT ARIANE VENTURES

P4. PRODUCT OVERVIEW

P5. KEY FEATURES & MATERIAL PERFORMANCE

P6. STANDARD SIZES

P7. CUSTOMIZATION SERVICES

P8. INDUSTRIES & APPLICATIONS

P9. COST ADVANTAGES

P10-12. TECHNICAL DATASHEET

P13. CONTACT US



ABOUT ARIANE VENTURES

Ariane Ventures is a Saudi-based supplier of engineering plastics and industrial products, offering high-performance SafeRig Outrigger Pads with technical product-selection support.

WHY ARIANE VENTURES

SafeRig Outrigger Pads for cranes and heavy equipment



Wide Size Range

Square and round pads
from 300 mm to
1500 mm available



Custom Fabrication

Sizes, colours, handles
and surface finishes
made to order



Load-Based Guidance

Pad selection matched
to crane load and
ground conditions



Durable Material

High-density engineered
plastic with very low
water absorption



Project Supply

Bulk project delivery
and technical product
selection support

SAFERIG OUTRIGGER PADS | ARIANE VENTURES

- OEM / ODM customization
- Bulk project delivery capability

- Technical product-selection guidance
- Load-based recommendations

PRODUCT OVERVIEW

WHAT ARE SAFERIG OUTRIGGER PADS?

SafeRig Outrigger Pads, also known as stabilizer pads, are high-strength engineered plastic support plates placed between the outrigger float and the ground. They increase the effective contact area to reduce ground-bearing pressure, helping prevent sinking, equipment instability and surface damage.

WHY ARE SAFERIG OUTRIGGER PADS NECESSARY?

- Provide stable support on soft or non-structural ground
- Reduce indentation and damage to asphalt or concrete surfaces
- Help meet local safety requirements and industry standards
- Improve equipment safety across various ground conditions



KEY FEATURES & MATERIAL PERFORMANCE



Effective Load Distribution

Increases contact area to disperse pressure and improve operational stability and safety.



Excellent Compressive Strength

Maintains structural integrity under high loads with minimal permanent deformation.



High Density Molecular Structure

Provides superior impact resistance and wear resistance, suitable for frequent-use environments.



Lightweight & Durable

Lighter than traditional wood or steel pads, easy to handle and reusable.



Extremely Low Water Absorption

Does not swell or degrade in wet or snowy environments.



Weather & Chemical Resistance

UV-resistant, corrosion-resistant, and waterproof for diverse climates and job sites.



Non-Conductive

Electrical insulation properties suitable for utility and power industry operations.



One-Piece Construction

No metal inserts, wood cores or bonded layers — zero delamination or separation risk.



Fully Customizable

Sizes, colors, surface textures, and engraved markings available.

STANDARD SIZES

Square outrigger pad

Common size	Thickness	Load Capacity	Weight
11.81 × 11.81"	1.57"	19841.58 lbs	7.94 lbs
300×300mm	40mm	9 Tons	3.6 KGS
15.75 × 15.75 "	1.57"	26455.44 lbs	14.11 lbs
400×400mm	40mm	12 Tons	6.4 KGS
15.75 × 15.75 "	1.97"	30864.68 lbs	17.64 lbs
400×400mm	50mm	14 Tons	8 KGS
15.75 × 15.75 "	2.36"	33069.30 lbs	21.16 lbs
400×400mm	60mm	15 Tons	9.6 KGS
19.69 × 19.69 "	1.57"	33069.30 lbs	22.05 lbs
500×500mm	40mm	15 Tons	10 KGS
19.69 × 19.69"	1.97"	39683.16 lbs	27.56 lbs
500×500mm	50mm	18 Tons	12.5 KGS
19.69 × 19.69 "	2.36"	55115.50 lbs	33.07 lbs
500×500mm	60mm	25 Tons	15 KGS
23.62 × 23.62 "	2.36"	61729.36 lbs	47.62 lbs
600×600mm	60mm	28 Tons	21.6 KGS
24×24"	2"	57320.12 lbs	41.67 lbs
609.6×609.6mm	50.8mm	26 Tons	18.9 KGS
27.56 × 27.56 "	2.36"	61729.36 lbs	64.82 lbs
700×700mm	60mm	28 Tons	29.4 KGS
31.50 × 31.50 "	2.36"	66138.6 lbs	84.66 lbs
800×800mm	60mm	30 Tons	38.4 KGS
31.50 × 31.50 "	3.15"	77161.7 lbs	112.88 lbs
800×800mm	80mm	35 Tons	51.2 KGS
39.37×39.37"	3.15"	154323.4 lbs	176.37 lbs
1000×1000mm	80mm	70 Tons	80 KGS
47.24×47.24"	3.94"	352739.2 lbs	317.47 lbs
1200×1200mm	100mm	160 Tons	144 KGS
59.06×59.06"	3.94"	440924 lbs	496.04 lbs
1500×1500mm	100mm	200 Tons	225 KGS

Round outrigger pad

Common size	Thickness	Load Capacity	Weight
18"	1.5"	33069.30 lbs	13.89 lbs
457.2mm	38.1mm	15 Tons	6.3 KGS
24"	2"	44092.40 lbs	32.63 lbs
609.6mm	50.8mm	20Tons	14.8 KGS
31.5"	1.969"	77161.7 lbs	55.12 lbs
800mm	50mm	35 Tons	25 KGS
31.5"	2.362"	88184.8 lbs	62.83 lbs
800mm	60mm	40 Tons	28.5 KGS
35.43"	1.969"	99207.9 lbs	66.14 lbs
900mm	50mm	45 Tons	30 KGS
35.43"	2.362"	110231 lbs	80.47 lbs
900mm	60mm	50 Tons	36.5 KGS
39.37"	1.969"	110231 lbs	82.67 lbs
1000mm	50mm	50 Tons	37.5 KGS
39.37"	2.362"	132277.2 lbs	98.11 lbs
1000mm	60mm	60 Tons	44.5 KGS
39.37"	2.756"	165346.5 lbs	114.64 lbs
1000mm	70mm	75 Tons	52 KGS
39.37"	3.150"	176369.6 lbs	132.28 lbs
1000mm	80mm	80 Tons	60 KGS
47.24"	2.362"	198415.8 lbs	141.1 lbs
1200mm	60mm	90 Tons	64 KGS
47.24"	2.756"	242508.2 lbs	167.55 lbs
1200mm	70mm	110 Tons	76 KGS
47.24"	3.150"	264554.4 lbs	191.8 lbs
1200mm	80mm	120 Tons	87 KGS
59.06"	3.150"	352739.2 lbs	308.65 lbs
1500mm	80mm	160 Tons	140 KGS
59.06"	3.937"	396831.6 lbs	383.6 lbs
1500mm	100mm	180 Tons	174 KGS

Supports customization of any length × width × thickness specifications.

Supports engraving of company logos, equipment numbers, and other identification information.

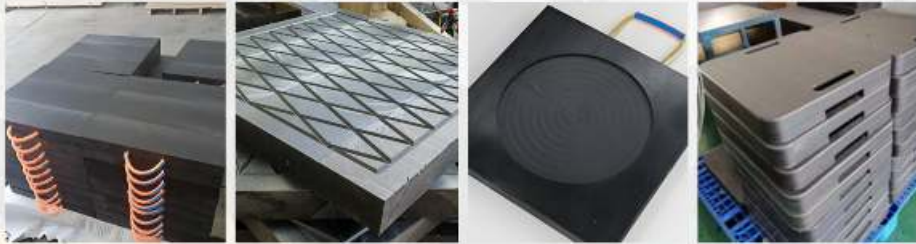
The effective pad area should be at least three times the outrigger float area to ensure proper load distribution.

CUSTOMIZATION SERVICES

We can flexibly combine customization options and optimize solutions based on equipment conditions and usage scenarios.

Surface Options

- Smooth Surface
- X-Groove Anti-Slip Surface
- Circular Recess Groove
- Safety Ground Finish



Color Options

- Black
- Yellow
- Multi-color
- Blue and other custom colors



Handle Systems

- Integrated Self Handle
- Nylon Rope + PVC Tube
- Full PVC-Coated Handle
- Steel Handle



Shape Options

- Standard Square
- Radius Edges and Corners
- Round
- Special Structures



INDUSTRIES & APPLICATIONS



Construction & Infrastructure



Energy (Oil & Gas, Wind Installation)



Emergency Services



Municipal Maintenance



Utilities (Power, Telecom, Gas, Water)



Arboriculture & Tree Care



Mining & Drilling

COST ADVANTAGES

Compared with traditional wood or steel pads:

- **No frequent replacement**

Service life exceeding 10 years significantly reduces replacement costs

- **Zero Maintenance**

Will not rust, rot or require protective treatment.

- **Reduced Transportation Costs**

Lightweight design allows more units per shipment

- **Lower Labor Costs**

Quick deployment reduces handling time and manpower requirements

- **Reduces Surface Repair Costs**

Minimizes damage and liability claims



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

CR: 2051245534 | Al Khobar Al Janubiyah, KSA

This datasheet is issued under the company seal below.



LET'S BUILD SAFER SUPPORT SOLUTIONS

Engineered SafeRig Outrigger Pads backed by practical material expertise and responsive technical support.

SUPPLIED BY

ARIANE VENTURES.



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