

Umat – Seabed Mattress System

ED Umat - Extreme Duty Seabed Support Mattress

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The **ED Umat**, Subsea Extreme Duty Seabed Support Mattress, is part of the Umat Seabed Mattress System that includes a number of different type and size, single or multi segment, high strength, seabed support and foundation mattresses that suit a wide range of subsea applications and / or conditions, including soft seabed.



Construction

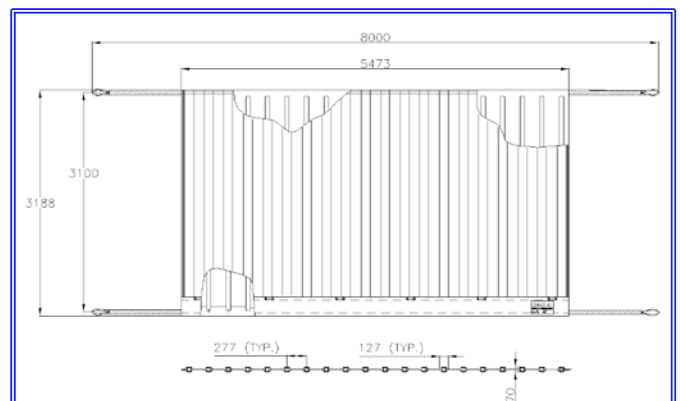
- Standard configuration includes 20 off Square Hollow Section (SHS) steel profiles, S355 quality, 60mm x 60mm x 5mm. The SHS quantity can be increased to maximum 38 (or reduced).
- High strength, tear and wear resistant fabric with pockets for SHS profiles.
- Distance between SHS profiles is 27.7cm (with 20 off profiles). With 38 profiles, the distance is 12.6cm, centre to centre.
- Certified webbing slings for lifting and handling sewed into the mattress assembly.
- Optional high friction coating on one side.
- Sizes / weights:

E.D. - UMat Configuration	Length (m)	Width (m)	Height (m)	Dry Wgt. (kg)	Seawater Wgt. (kg)
Standard (20 off SHS)	5.5	3.2	0.07	540	472
Maximum (38 off SHS)	5.1	3.2	0.07	980	850
Other (Qty. of SHS T.B.A.)	T.B.A.	3.2	0.07	T.B.A.	T.B.A.



Application & Features

- Seabed support mat primarily intended to provide temporary support and foundation for very heavy objects and structures that have a large / elongated footprint such as large and heavy pipeline and riser end terminations / connectors, subsea winch structures, large/long subsea baskets, elongated heavy PLET / PLEM, or other.
- Provides support on a curved seabed profile.
- In combination with two beams, it can be used as a crossing bridge over a local seabed depression.
- Can be used as a temporary cover / hatch on seabed placed equipment.
- Prevent equipment from sinking into soft seabed.
- Eliminates any seabed suction effects.
- For some application, it replaces concrete mattresses.
- Lightweight construction that is easy and fast to handle, install and recover without the use of lift spreader.
- The Umat fabric permits water to penetrate. There is no penetration of sand and silt (i.e. compaction of underlying seabed/soil during loading).
- If required, delivered with deployment and recovery rigging including fists for ROV positioning on the seabed.
- Packing & Transportation is on a on a purpose made pallet suitable for fork lift handling.



Contacts

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