

Umat – Seabed Mattress System

SSP Umat Type A – Semi Flexible

Separation, Stabilisation and Protection Mattress

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The **SSP Umat Type A**, Subsea Stabilisation, Separation and Protection Mattress including the optional insulation configuration, is flexible in one direction. It is part of the Umat Seabed Mattress System that includes several different types and size, single or multi segment, high strength, seabed mattresses that suit a wide range of subsea applications and / or conditions, including soft seabed

Construction

- High strength, tear and wear resistant fabric, 5mm thick, with pockets for 23 off heavy wall thickness PE tubes and 2 off 51 x 51mm SHS Profiles (GRP Material) positioned in each end of the mattress.



- Two off 2t certified webbing slings for lifting and handling sewed into the mattress assembly.
- Mattress weight is varied by varying the number of sand filled tubes located inside the mattress. These are vented through a fine mesh net each end.
- Sizes / weights standard SSP Umat Type A1.2 are (Size: 3.2m long x 3.2m wide):

No. of sand filled tubes	Dry weight (Kg)	Seawater weight (kg)	Height (cm)	Seabed Wgt. (kg / sq. m)
23 (100%)	462	195	8.5	19.9
19 (83%)	434	177	8.5	18.1
17 (74%)	399	143	8.5	14.6
15 (65%)	348	125	8.5	12.8
12 (52%)	306	99	8.5	10.1
9 (39%)	263	73	8.5	7.5

- Other size, thickness & weight SSP Umats Type A are available on request.
- Close to subsea structures, as an alternative to rock dump, smaller size ROV installable SSP Umats can be used.
- Unlimited surface / subsea lifetime provided that it is not exposed to UV radiation (i.e. sunlight) over a long period (1 year +).

Application & Features

- Applications are:
 - Separation mattress between subsea installed equipment including sea lines.
 - Separation mattress between rock dumped areas and equipment placed on top.
 - Sea line crossing application when used in combination with Ubags to achieve a separation of up to 300mm or more.
 - Weight mattress for stabilising subsea equipment.
 - Protection mattress for subsea equipment. Dropped object protection accommodated by tubes, water inside the tubes (hydraulic dampening), and sand located inside the tubes. Increased dropped object protection is obtained when used in combination with Ubags.
 - No hard surfaces or edges that will snag on or scratch underlaying equipment.
 - Temporary protection of seabed located equipment from crossing of holdback wires, laydown wires, anchor lines and similar.
 - With an optional inner non-penetrable liner that will trap heated water between the outer mattress layer and the sea line it will provide local insulation.



- Do not need and spreader bar or frame for lifting.
- Easy to move or recover.
- Includes integrated features that allow a lightweight (11 filled tubes) rolled up mattress to be provided with handles and release straps for ROV lifting, positioning and unfolding.
- One or several mattresses can be deployed in a ROV basket including any Ubags that shall be used for construction of a sea line crossing arrangement.
- Delivered packed on a pallet wrapped in plastic or in a ROV Basket including any Ubags ready for deployment.

Contacts

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