



## Real Safe Mud Mat Technical Data Sheet

### Product Description

Real Safe Standard Mud Mat is a heavy-duty polyurethane (PU) Subsea Protection & Support Mat developed for use both for offshore and onshore applications.

The steel reinforced Mud Mats have been developed for special purposes by molding-in steel reinforcements - providing mats stiffness, ballast and robustness - resulting in increased structural stability during subsea operations.

### Technical Specifications

Real Safe Mud Mats are made from high grade polyurethane (PU), a lightweight material with extreme durability.

In environments with low temperatures and reduced UV exposure such as seabed, Real Safe Mud Mats have an expected lifetime of 20 years.



Polyurethane specifications: PP-PU-100-65D	
Tensile Strength	30,5 (ISO 37)
Elongation at tear	198% (ISO 37)
Abrasion resistance	5mg/1000 cycle (ASTM D4060)
Hardness	65 Shore D

### BENEFITS OF REAL SAFE MUD MAT

- Increase visibility during subsea operations
- Reduce friction during tie-in operations
- Prevent offshore structures and tools from sinking into soft unconsolidated soil on the seabed
- Minimal cleaning of object placed on a mat
- Lightweight
- Quick to deploy and retrieve
- Easy to Wash
- Long shelf life, Reusable

### APPLICATIONS

- Support for subsea equipment
- Landing and positioning device on seabed
- Seabed pipeline and cable protection
- Wear protection between two crossing elements
- Soil protection on building sites
- construction site access
- Soft or sensitive ground condition areas where vehicle access is required

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### Standard Sizes

Real Safe Mud Mats are available in 7 standard sizes as shown in the table below. For larger areas, standard Mud Mats can be overlapped. Custom made solutions can be provided for specific applications.

Type	Dimension (mm)	Mass in air/seawater (kg)		Bundle size
		Mud Mat Standard	Mud Mat Reinforced	LxWxH (cm)
Mud Mat 4	2400x1600x30	95/12	105/25	245x30x25
Mud Mat 9	3600x2600x30	220/30	255/65	365x30x35
Mud Mat 14	3600x4000x30	330/45	380/95	365x60x20
Mud Mat 18	3600x5000x30	410/60	470/125	365x60x35
Mud Mat 19	4800x4000x30	430/60	500/130	490x60x25
Mud Mat 24	4800x5000x30	540/70	630/165	490x60x35
Mud Mat 30	6000x5000x30	670/90	800/215	610x60x35

### Product Handling

Lifting slings 2 Te green are integrated into the Mud Mat during fabrication, which allows for easy deployment and structural stability. After production, Mud Mats are bundled - ensuring easy handling during transport and storage.



### Installation

Installation of Real Safe Mud Mat is relatively simple and time efficient. The mats may be over-boarded and lowered to the seabed in clusters if necessary. The table below gives a time estimate on installation duration.

Subsea operations	Duration (min)	Accumulated Duration (min)
Over-boarding and lowering to seabed	30	30
Landing on seabed	6	36
Roll out mats	5	41
Pick up and place with ROV	15	56

Mud Mats made from Polyurethane can be installed in approx. 1 hour, which is quick when compared to similar products such as concrete mats, which take more than 2 hours to be installed.