



Asset Identification Solutions

Shield™

Installation Procedure

AQUASIGN

Created
5th December 2014

Revision
2

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Shield™ Installation

1. Planning

Work Area

It is necessary to plan the fixing of Aquasign® subsea markers to ensure their compatibility with other stages work, e.g. painting.

Ensure access can be gained to the installation area and that the required surface preparation can be performed properly. A flat work surface is essential to the Shield™ application process; therefore a table or work station would be required at each work area



Marker

The Shield™ markers will be supplied encased in high density polyethylene frames that will surround the Aquasign® marker, offering superb protection against accidental ROV, diver or jet washing damage. The frame will be supplied with pre-drilled holes as per drawings or specification ready to bolt to the structure.

Vinyl protective covers will be in place over the front of the marker. These should remain in place during the installation process to avoid surface contamination, but must be removed prior to deployment.



Adhesive

Our high performance silicone adhesive, Biohesive® 225, must be applied around the edges of the frame to ensure a water-tight seal.

Biohesive® has a maximum shelf life of 24 months. Always check the expiry date prior to application. Do not use past expiry date.



ShieldTM Installation

2. Equipment

Installation

To install ShieldTM markers, the following is required;

1. Marker Pen
2. Drilling Equipment
3. Surface Preparation Wipe
4. Bolts and Washers
5. Hammer
6. Cartridge Gun
7. Biohesive[®] 225

PPE – Personal Protective Equipment

GOGGLES

Wear suitable approved chemical safety goggles when eye exposure is reasonably probable



GLOVES

Wear suitable protective gloves if there is a risk of skin contact



3. Fixing Recommendations

To ensure dimension compatibility, the ShieldTM marker should be placed onto the proposed location and marked using a pen before the installation process begins. It is advised not to drill holes until the marker dimensions and pre-drilled holes are confirmed compatible.

Once the dimensions are confirmed, holes should then be drilled into the substrate, bolts pushed through the allocated holes on the frame and tightened to secure onto the structure.

ShieldTM Installation

4.

Preparation

- Insert cartridge into application gun provided, remove the tip and cut the dispensing nozzle to a desired size (5mm recommended)
- Hold the ShieldTM marker up to its required location and mark around the frame and in each of the bolt holes using a marker pen.
- Clean the surface area with the wipes provided
- Drill holes into the structure using the holes marked by the pen as guidance.



5. Marker Installation

- Place the bolts into each hole and lower the marker into position
- Using a hammer, fix the ShieldTM marker to the structure by tapping the bolts
- Apply a bead of Biohesive 225 around the edge of the frame
- Using a finger smooth bead around the edge of the Aquasign[®] (ensure gloves are worn)



6. Protective Covers

The protective covers supplied with our UV-Stable range Aquasign-Solis[®] are to keep the markers clean as opposed to protective from fading. These can therefore be removed at any time prior to deployment although it is recommended that these remain in place until the markers have been affixed to the substrate.

Company & Contact Details

If you have any further questions regarding the installation of your subsea markers please contact us direct either by telephone or email: -

Email: info@aquasign.com

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