



# **AL-7107**

## **Maritime Stabilized VSAT System**



## **System Mast Template User Instructions**

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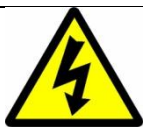
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This information is important and should be noted.

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Information given in this message warns of a hazard.

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Information given in this warning refers to the only safe method of installation or operation and must be adhered to.

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## 1 INTRODUCTION

### 1.1 Purpose

The user instructions for OrBand Mast Template details the procedure when using the OrBand™ AL-7107 System's Mast Template item, which is designed for the benefit of Orbit's customers, to optimally prepare and build, in the field, the required Mast drilling holes that will be part of the vessel Mast, and used to connect the mast with the system's basering.

We in Orbit, are sure that by preparing the drilling holes of the mast design in advance, will make the OrBand Systems's Installation easier and faster.

### 1.2 Principle

The OrBand™ AL-7107 Mast Template KIT includes:

- OrBand System Outline Dimensions - DCD29-0935 (DCD FOR AL-7107-SYSTEM)
- KIT32-0562 (KIT FOR MAST TEMPLATE):
  - Mast Template
  - Magnets
- User Instructions

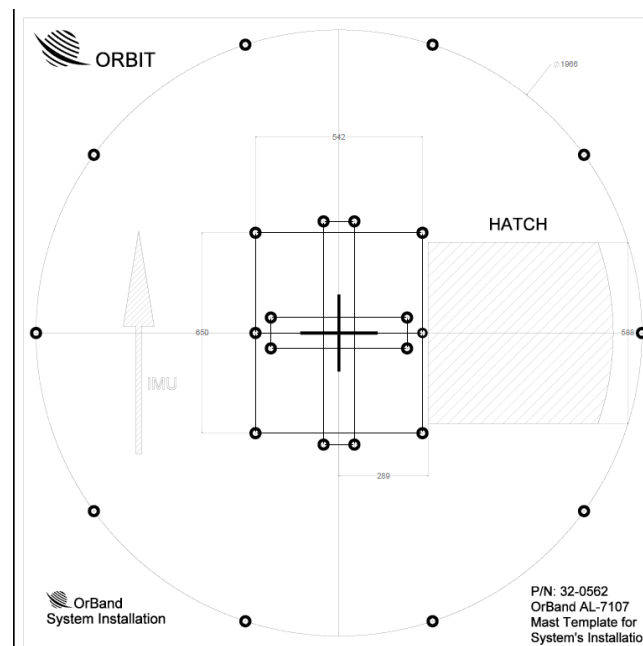


Figure 1-1: Mast Template drawing



## 2 How to Use the Mast Template

### 2.1 Placing the Mast Template

- Unpack the Mast Template and place it on the dedicated OrBand system Vessel Mast.
- Ensure that there are no bumps and potholes on the dedicated Vessel Mast and that the Template is spread straight and tight.
- Secure the Mast Template to the mast itself, using the supplied Magnets, placing one Magnet next to each of the 24 drilling holes (marked with **BOLD** circles on the Mast template).
- Please note that positioning the Template with IMU Arrow pointing to Ship's heading is not mandatory, as the system has Compass Offset Parameter to correct the difference between them.
- Please note that the bottom hatch location, which appears on the template, should be taken into consideration for the future Radome installation.

### 2.2 Marking the Drilling Holes Location

- Using a center punches tool, mark the cross center (marked by X) of the 24 drilling holes.
- Validate that the markings will make through-holes in the Mast Template material and reach the vessel Mast.
- Remove the Magnets and the Mast Template.

### 2.3 Drilling the Holes

- The Drilling should be done vertically to the Mast plane.
- Drilling the Holes should begin with a small diameter driller about 5mm and increase, step-by-step, up to the final diameter of 18mm.



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Starting the Drilling with a big diameter driller, above 5mm, can cause a deviation between the holes and will cause difficulties during the System installation on the Vessel Mast.

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- Once the drilling is completed, please make sure all sharp edges are removed.
- We recommend applying a Zinc coating spray inside the holes, in order to prevent corrosion.