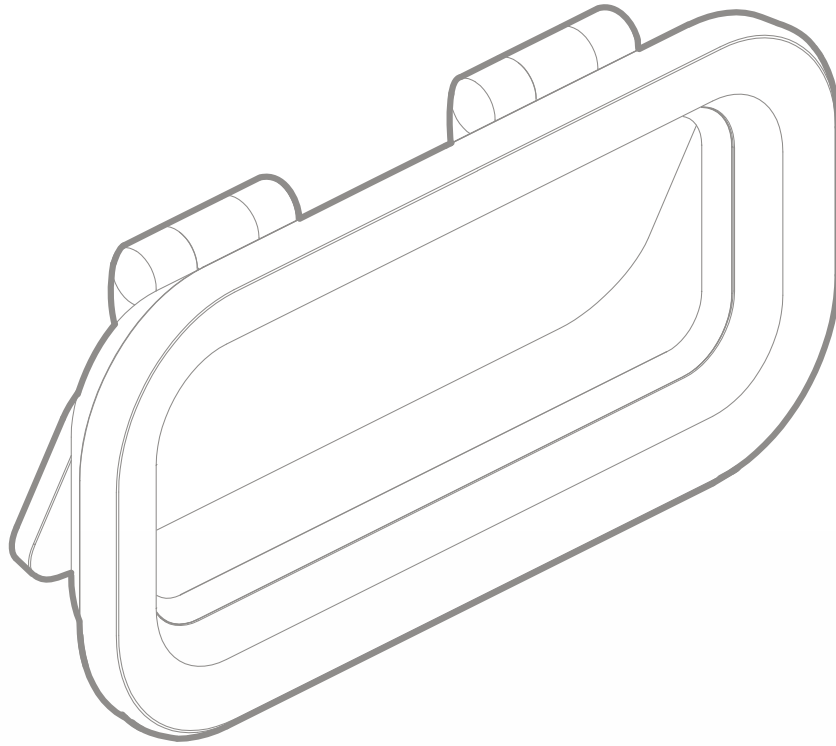




Craftsman
MARINE



OMEGA PORTHOLES

MANUAL

CRAFTED WITH CRAFTSMAN MARINE

DECK EQUIPMENT

Thank you very much for purchasing (a) Craftsman Marine porthole(s).

You have made an excellent choice and our Craftsman Marine Service Team will gladly be of the best possible assistance, if and when you will need us.

The portholes made by Craftsman Marine are designed and developed by engineers who are fully aware of all requirements in a marine environment; professionals who know of the ultimate quality demands, whilst making the best use of their many years of experience.

Enjoy boating with your Craftsman Marine products on board.
Craftsman Marine B.V.

Here below you will find a survey of caution pictograms pertaining to this manual. Remarks that are related to safety bear this symbol:



**DANGER
ATTENTION**

Carefully adhere to these instructions and inform all people who are involved in the operation or the maintenance of the engine about these safety precautions.

- When the Thruster is in operation: do not touch any of the moving parts.
- When the Thruster is in operation several components will become very hot. Never touch these parts and avoid the use of flammable products in the vicinity of the electric motor.
- In the case of adjustment or inspection of parts of the Thruster always stop the Thruster and disconnect the battery.
- All maintenance jobs should be executed by qualified mechanics, using properly fitting tools.

If at all possible, only entrust these jobs to an authorized Craftsman Marine dealer.

Symbols related to the text below:



Pay attention to the symbols and read the instructions in the text.



Attention
(especially with a view to a safety risk for man or material)

Table of contents

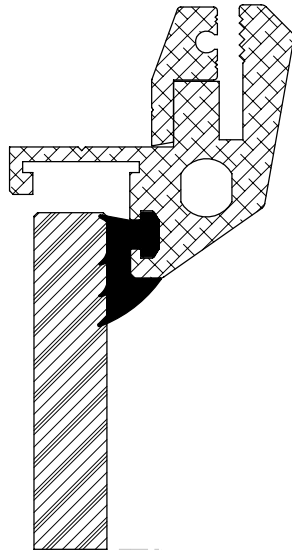
1 Preface	2	8 Installation manual	10
2 Safety	2	1. Guide for M4 bolt length selection	12
3 Table of contents	3	2. Hinge - pre-tension adjustment Procedure	13
4 Introduction	4	9 Operation	14
5 Product survey	5	10 Maintenance	14
6 Technical specifications	6		
OMEGA standard	6		
OMEGA rectangular	7		
OMEGA round	8		
7 Safety precautions	9		
Safety precautions	9		
Practical tips	9		

4 Introduction

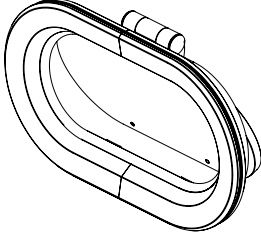
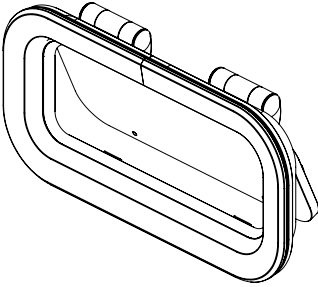
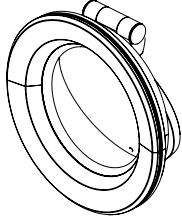
Craftsman Marine portholes are made of special, seawater resistant aluminium profiles, polished by hand to eliminate the surface pores (no collection of dirt) and thereafter anodized.

The panes are made of unbreakable acrylic of 10 mm thickness.
Colour: smoke grey.

The hinges and clamps are made of synthetic and other non-corrosive materials.
Craftsman Marine portholes are CE-certified, class A2.



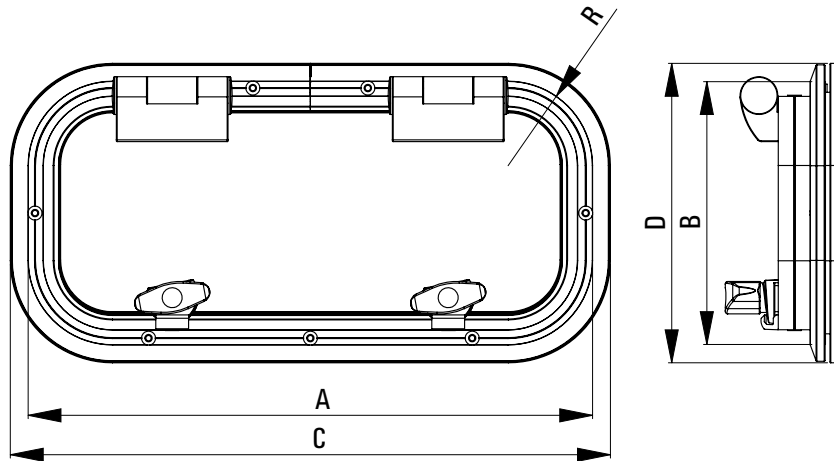
This manual applies to the following Craftsman Marine portholes:

FA.010.20010	OMEGA 222 x 126mm (standard)	
FA.010.20020	OMEGA 272 x 151mm (standard)	
FA.010.20030	OMEGA 322 x 179mm (standard)	
FA.010.20040	OMEGA 340 x 126mm (standard)	
FA.010.20050	OMEGA 368 x 202mm (standard)	
FA.010.20060	OMEGA 480 x 233mm (standard)	
FA.010.20070	OMEGA 600 x 179mm (standard)	
FA.020.20080	OMEGA 279 x 142mm (rectangular)	
FA.020.20090	OMEGA 329 x 152mm (rectangular)	
FA.020.20100	OMEGA 343 x 160mm (rectangular)	
FA.020.20110	OMEGA 343 x 176mm (rectangular)	
FA.020.20120	OMEGA 377 x 168mm (rectangular)	
FA.020.20130	OMEGA 377 x 212mm (rectangular)	
FA.020.20140	OMEGA 429 x 252mm (rectangular)	
FA.020.20150	OMEGA 475 x 255mm (rectangular)	
FA.020.20160	OMEGA 630 x 180mm (rectangular)	
FA.030.20170	OMEGA 179mm (round)	
FA.030.20180	OMEGA 202mm (round)	
FA.030.20190	OMEGA 233mm (round)	
FA.030.20200	OMEGA 353mm (round)	

6 Technical specifications

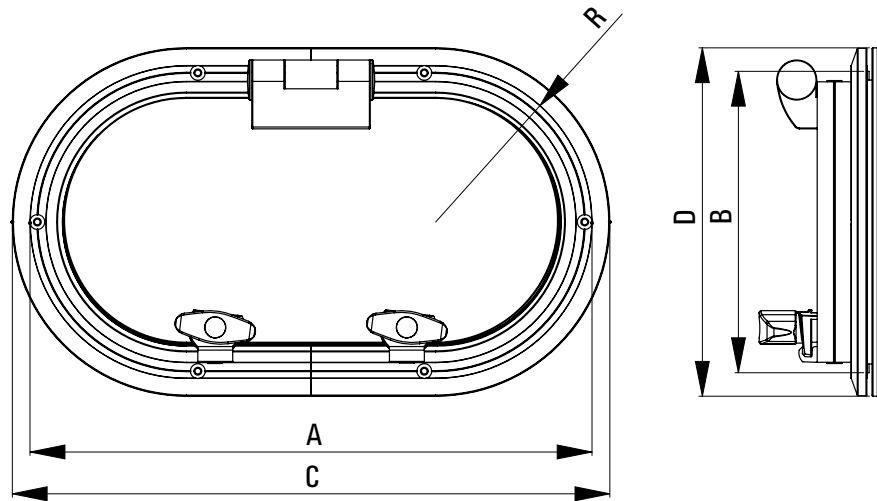
MODEL	NAME	CUT-OUT SIZE (A X B)	CUT-OUT RADIUS (R)	OVERALL DIMENSIONS (C X D)
1	OMEGA STANDARD	222 x 126	63	246 x 150
2		272 x 151	75.5	296 x 175
3		322 x 179	89.5	346 x 203
4		340 x 126	63	364 x 150
5		368 x 202	101	392 x 226
6		480 x 233	116.5	504 x 257
7		600 x 179	89.5	624 x 203

All given figures are in mm



MODEL	NAME	CUT-OUT SIZE (A X B)	CUT-OUT RADIUS (R)	OVERALL DIMENSIONS (C X D)
1	OMEGA RECTANGULAR	279 x 142	51	303 x 166
2		329 x 152	51	353 x 176
3		343 x 160	51	367 x 184
4		343 x 176	51	367 x 200
5		377 x 168	51	401 x 192
6		377 x 212	51	401 x 236
7		429 x 252	51	453 x 276
8		475 x 255	51	499 x 279
9		630 x 180	51	654 x 204

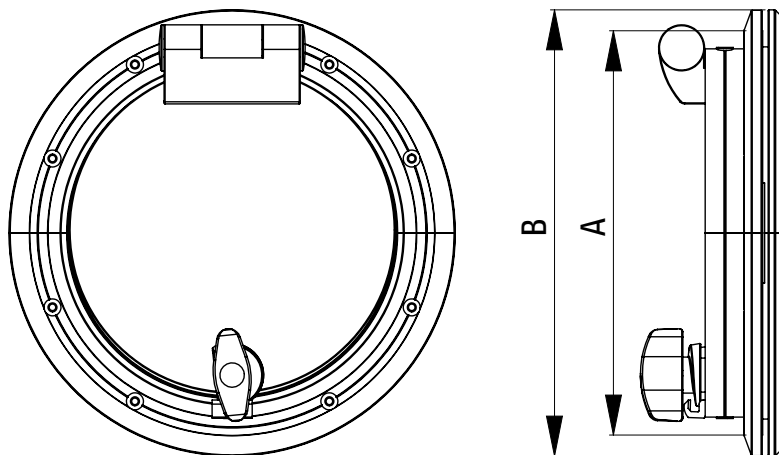
All given figures are in mm



6 Technical specification

MODEL	NAME	CUT-OUT SIZE A	OVERALL DIAMETER B
1	OMEGA ROUND	Ø 179	Ø 203
2		Ø 202	Ø 226
3		Ø 233	Ø 257
4		Ø 353	Ø 377

All given figures are in mm



Safety precautions



Take the required safety measures when fitting this equipment, especially while cutting into the hull: smoke, dust and glass fiber particles should be avoided by wearing goggles, a dust mask and gloves.



Keep all portholes firmly closed while boating!

Practical Tips



The porthole may only be used for inward opening of the pane.



Make sure that the portion of the hull into which the porthole is fitted will be absolutely flush and not curved or dented, so as to ensure proper water-tightness.



Use Marine -grade sealant and apply it liberally onto the inside of the outer flange.



Do not use alkaline or acidic cleaning agents for removing any excess sealant from the hull.



Never use abrasive paper for cleaning the aluminium profiles. Water and a mild detergent will do just fine.



Do not use petroleum-contained cleaners for the acrylic pane. Also here: water and a mild detergent.



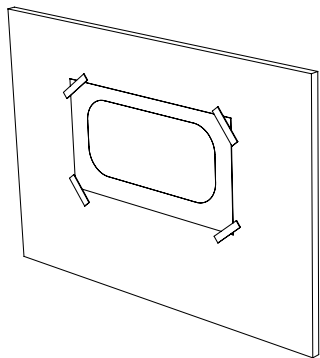
If there is no use for it, do not tamper with the hinges; the factory setting is the right one. See also page 11.



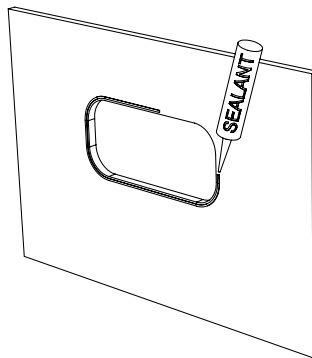
Do not turn the clamps more than one rotation (360°) counter-clockwise, to avoid over-tightening, and damage to the rubber seal and the clamp itself.

8 Installation manual

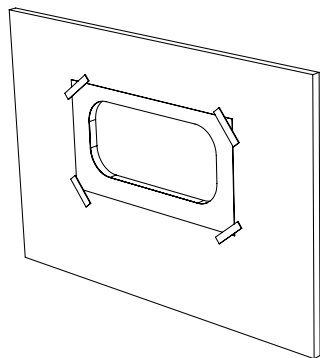
1. Mark the cut-out portion by using the template.



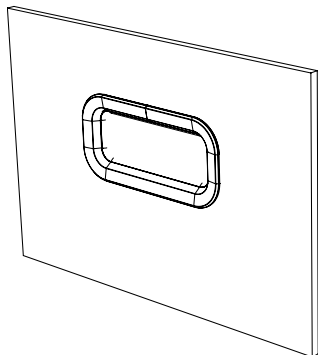
3. Apply sealant onto the fitting edge.



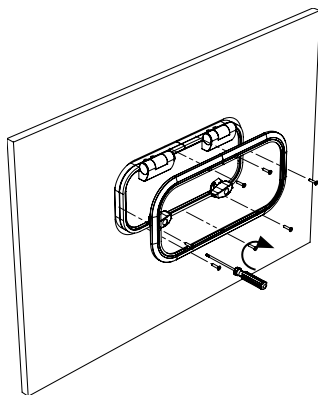
2. Cut the hole using a jigsaw, and deburr the edges.



4. Verify proper fitting and press the porthole firmly into the hole, so that the sealant is forced from the gap.

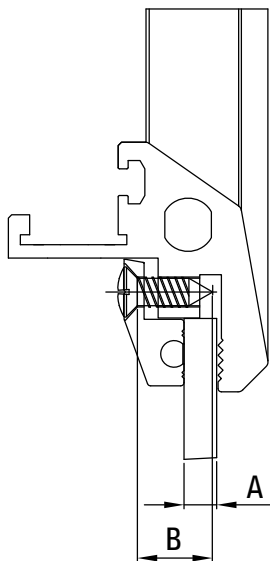


5. Position the inner frame and fasten the screws evenly; do not over-tighten.



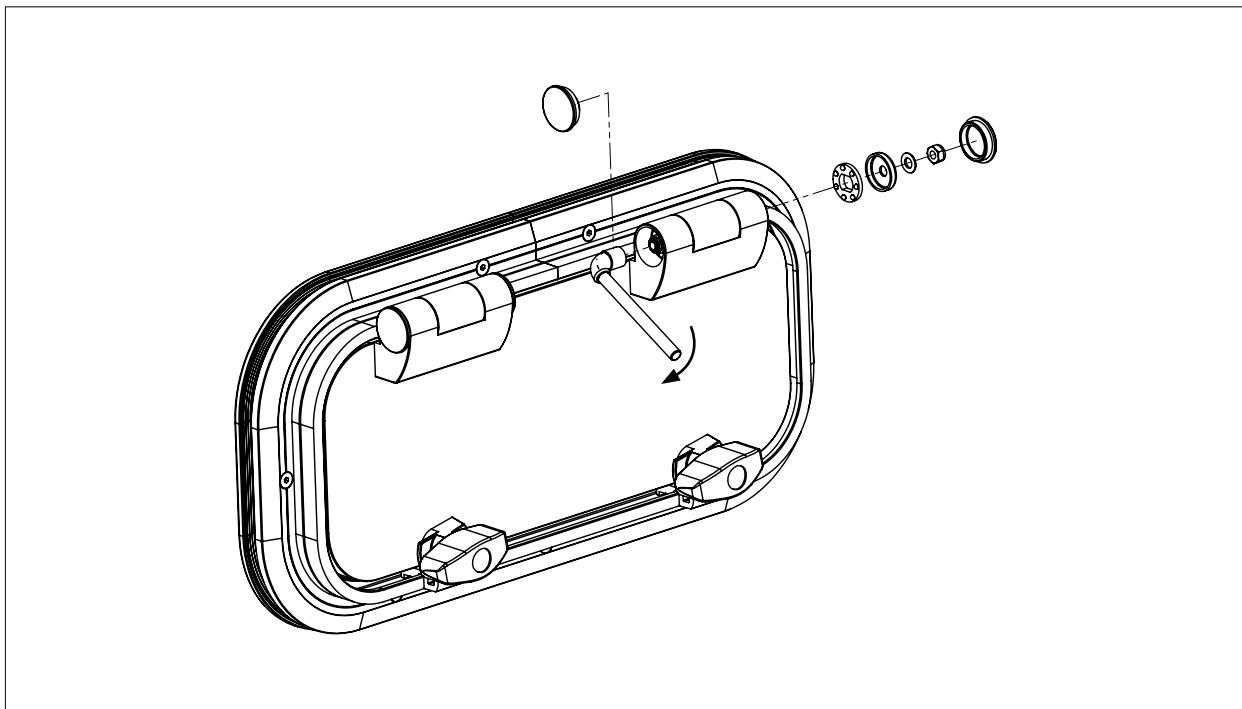
8 Installation manual

1. Guide for M4 Bolt length selection



A		B
min. (mm)	max. (mm)	
3	10	12
11	15	16
15	20	19
21	25	22

2. Hinge - pre-tension adjustment procedure



- The hinges are factory adjusted and in most cases do not require further adjustment on site.
- Use a socket spanner to tighten the nuts at both ends, so that they just touch the washers. Do not over-tighten!

Safety precautions:

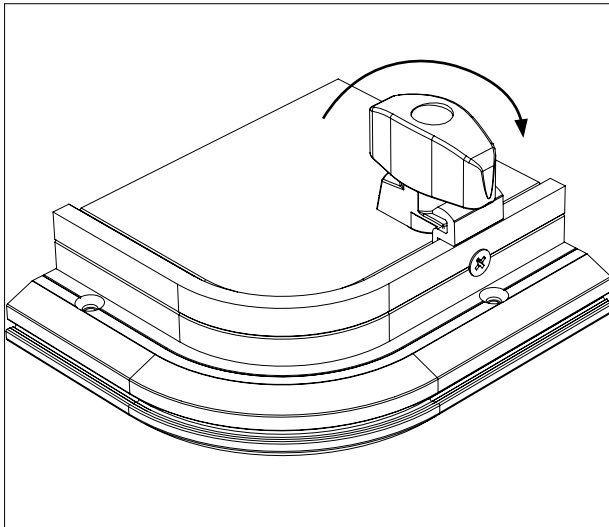
Opening: Turn the clamps a quarter turn to the left and pull the clamps outward to open the window pane. The window pane will remain open in any position you may choose.

Closing: Ensure that the clamps are in the "open" position. Push the window closed and turn the clamps a quarter turn to the right.

Adjust extra compression by adding 1 revolution counterclockwise extra.

Maintenance

Use only genuine Craftsman Marine spares.
Clean anodized aluminum profiles only with neutral and non abrasive cleaning agents.



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