

Hatch & Portlight Fitting Guide



www.lewmar.com



ABS plastic and aluminium trimkits are available, making the interior installation easy and stylish. The kit comes complete with fly screen.



ABS Plastic Trimkit



Roller Shade/Screen

Fitting a new or replacement hatch or portlight can be a simple and rewarding procedure. By following these clear instructions you will be able to complete the job easily. But remember the most important part of fitting a new hatch or portlight is forward planning.

Before you order your hatch or portlight, you need to make some straightforward measurements. When replacing an old hatch or portlight, carefully measure the old hatch and aperture. You then have the information to hand when selecting your replacement hatch/portlight.

When you are replacing an older Lewmar hatch or portlight and you would like to find a direct replacement, please note that although the Lewmar standard cut out sizes have remained constant, the corner radius may have changed on certain models. If you cannot match up a new hatch or portlight with the existing range of cut outs, the only solution may be to build an intermediate frame from timber.

If you are selecting a location for a new hatch or portlight you must make sure the surface is flat with a maximum tolerance of +/- 1mm. You should also consider that if you are fitting a new hatch or portlight, cutting a hole in your boat might compromise the structural integrity of the boat. Hatches and portlights should not be considered as stiffening members and it is recommended that the deck be adequately stiffened to prevent distortion during heavy weather. If you have any doubts about the location you are going to place the hatch or portlight, you should consult a yacht designer or surveyor.

This guide will help you choose a particular hatch or portlight, however you will have to take time and read the hatch and portlight location guidelines in this booklet, as CE regulations stipulate where certain products may be fitted.

With this simple well illustrated guide, choosing your hatch or portlight is easy. Don't forget that the most important part of the task is not fitting the hatch, but planning the job well and having the correct tools to hand. To replace any of your craft's existing hatches or undertake a retrofit installation, Lewmar offers a comprehensive range of sizes. Available in Low Profile, Medium Profile and Ocean ranges.

Low Profile Hatch

Figure 1

The Low Profile hatches have soft styling and sleek looks. They are ideal for use on power craft. The smaller ventilation hatches are suitable for any deck location on sail boats and the larger hatches can be used as foredeck hatches on small to mid size yachts. The hatch also features Lewmar's unique sealing system allowing easy acrylic replacement.

Medium Profile Hatch

Figure 2

The Medium Profile hatch has identical styling to the Low Profile hatch while providing greater strength as a result of thicker acrylic and deeper frame sections. This product is ideal on the foredeck of larger offshore yachts. The hatch also features Lewmar's unique sealing system allowing easy acrylic replacement.



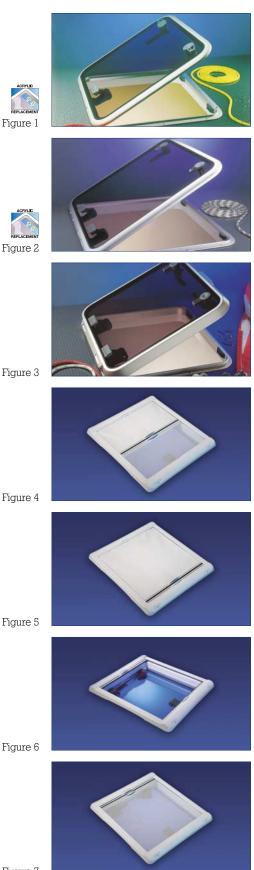
Figure 3

The Ocean hatch has a classical styling and rugged construction for ultimate protection against the elements. Lewmar's Ocean hatches are fitted to thousands of boats throughout the world.

Roller Shade/Screen

Figure 4 to 7

The new Roller Shade/Screen is a tough multi-functional hatch accessory which features an integral blind and flyscreen. The new Roller Shade/Screen allows trickle ventilation, and has an easy to install trim system for all types of sailing and motor yachts fitted with standard Lewmar hatches.



Hatches with this icon feature Lewmar's unique sealing system which allows easy replacement of the acrylic lens by simply sliding the two halves of the frame apart.

Standard Portlight

Figure 8

The Standard Portlight is ideal for the cruising boat and is competitively priced. The range is stylish, easy to use and simple to install. It is an ideal replacement for the older standard portlights.

Atlantic Portlight

Figure 9

Atlantic Portlights are well styled with clean lines and clear vision through the window. The acrylic window has an aluminium frame making the hatch very reliable, qualifying for CE area 1 (in hull) between size 10 and 32.



Figure 10

The Stainless Portlight features a highly polished stainless outer frame with a mirror finish quality. The handles and hinge systems are from the Standard Portlight and leave the lens free from obstructions for a cleaner look.

All portlights and fixed lights come complete with fixings and flyscreens except size 4 left & right hand Standard Portlights. Flyscreens are not available on these models.







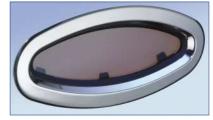


Figure 10



Please refer to inside rear cover.

Hatch & Portlight Specifications & Dimensions

						Overa	all Size								e Dimen nkits ar		
Part No	Size	Lov Frai Flar	me		ngth	w	idth	Hei		Ra		Cu	 Out ngth 	Cut	7) t-Out idth	Cut	-Out adii
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Low Prof	file H	atch															
39900030	00	15	9/ ₁₆	281	1 11/16	281	1 11/16	25	1	77.5	3 1/16	211	8 5/16	211	8 5/16	42.5	1 11/16
39903030	03	15	9/16	246	9 ¹¹ / ₁₆	301	11 7/8	25	1	77.5	3 1/16	176	6 ^{15/} 16	231	9 1/8	42.5	1 ¹¹ / ₁₆
39910030	10	15	9/16	330	12	330	12	25	1	77.5	3 1/16	260	10 1/4	260	10 1/4	42.5	1 11/16
39920030	20	15	9/16	272	10 11/16	417	16 7/16	25	1	77.5	3 1/16	202	7 ^{15/16}	347	13 11/16	42.5	1 11/16
39930030	30	15	9/16	397	15 5/8	527	20 3/4	25	1	77.5	3 1/16	327	12 7/8	457	18	42.5	1 ¹¹ / ₁₆
39940030	40	15	9/16	491	19 5/16	491	19 5/16	25	1	77.5	3 1/16	421	16 %16	421	16 %16	42.5	1 11/16
39941030*	41	15	9/16	246	9 ¹¹ / ₁₆	491	19 ⁵ /16	25	1	77.5	3 1/16	176	6 ¹⁵ /16	421	16 %16	42.5	1 ¹¹ / ₁₆
39944030	44	15	9/16	512	20 ³ / ₁₆	512	20 ³ / ₁₆	25	1	77.5	3 1/16	442	17 ³ /8	442	17 ³ /8	42.5	1 11/16
39950030	50	15	9/16	447	17 5/8	577	22 11/16	25	1	77.5	3 1/16	377	1 4 ^{13/16}	507	19 15/16	42.5	1 11/16
39954030	54	15	^{9/} 16	462	18 ³ /16	577	22 11/16	25	1	77.5	3 1/16	392	15 7/16	507	19 ^{15/16}	42.5	1 ¹¹ / ₁₆
39960030	60	15	9/16	577	22 11/16	577	22 11/16	25	1	77.5	3 1/16	507	19 ¹⁵ /16	507	19 ¹⁵ / ₁₆	42.5	1 11/16
39965030*	65	15	9/16	560	22 1/16		26 9/16 [†] 22 1/16 [†]	25	1	77.5	3 1/16	Se	e Drawi	ng Ab	ove	42.5	1 11/16

• Hatches should be fitted to a flat surface with a maximum tolerance of \pm 1mm. • Fastening size at the hinge section use M6 (1/4") bolts. • Fastening size for lower frame section use 5mm CSK screw No. 10 UNC 2BA. • Backing plate part number 360061909 (M6) or 360062909 (1/4"). *Part No's marked with a * are made to order. *Maximum Width. **Minimum Width.

Medium Profile Hatch

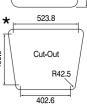
39930020	30	15	^{9/} 16	397 15 5/8	527 20 ³ / ₄	32	1 1/4	78	3 1/16	327 12 7/8	457 18	42.5 1 11/16
39940020	40	15	9/16	492 19 3/8	492 9 3/8	32	1 1/4	78	3 1/16	421 16 %	421 16 %16	42.5 1 11/16
39944020	44	15	9/16	513 20 ³ /16	513 20 ³ /16	32	1 1/4	78	3 1/16	442 17 3/8	442 17 3/8	42.5 1 11/16
39950020	50	15	^{9/} 16	448 17 5/8	578 22 ³ / ₄	32	1 1/4	78	3 1/16	377 14 ¹³ /16	507 19 ¹⁵ /16	42.5 1 11/16
39954020	54	15	9/16	463 18 1/4	578 22 3/4	32	1 1/4	78	3 1/16	392 15 7/16	507 19 15/16	42.5 1 11/16
39960020	60	15	9/16	578 22 ³ /4	578 22 3/4	32	1 1/4	78	3 1/16	507 19 ^{15/16}	507 19 15/16	42.5 1 11/16
39970020	70	15	9/16	698 27 ¹ / ₂	698 27 1/2	32	1 1/4	78	3 1/16	627 24 ¹¹ / ₁₆	627 24 11/16	42.5 1 11/16
39977020*	77	15	9/16	770 30 5/16	770 30 5/16	32	1 1/4	78	3 1/16	699 27 1/2	699 27 ¹ / ₂	42.5 1 11/16

Ocean Hatch

39600050* 39600070*	0	Flat Base 25 1	275 10 ^{13/16}	275 10 ^{13/16}	39.5 1%	69 211/16	201 7 ^{15/16} 206 8 ^{1/8}	201 7 ^{15/16} 206 8 ^{1/8}	34 1 ⁵ /16 36.5 1 ⁷ /16
39610050 39610070	10	Flat Base 25 1	324 123/4	324 123/4	39.5 1%16	75 215/16	255 10 ¹ / ₁₆ 260 10 ¹ / ₄	255 10 ¹ / ₁₆ 260 10 ¹ / ₄	40 1 ^{9/16} 42.5 1 ^{11/16}
39620050 39620070	20	Flat Base 25 1	266 101/2	411 16 ^{3/} 16	39.5 1%16	69 2 ¹¹ / ₁₆	197 7 ³ /4 202 7 ¹⁵ /16	342 13 ⁷ / ₁₆ 347 13 ¹¹ / ₁₆	34 1 ⁵ / ₁₆ 36.5 1 ⁷ / ₁₆
39630050 39630070	30	Flat Base 25 1	391 153/8	521 201/2	39.5 1%16	75 215/16	322 12 ¹¹ / ₁₆ 327 12 ⁷ / ₈	452 17 ¹³ / ₁₆ 457 18	40 19/16 42.5 1 ¹¹ /16
39640050 39640070	40	Flat Base 25 1	485 191/8	485 191/8	39.5 1%16	75 215/16	416 16 ³ /8 421 16 ⁹ /16	416 16 ³ / ₈ 421 16 ⁹ / ₁₆	40 1 ^{9/16} 42.5 1 ^{11/16}
39644050 39644070	44	Flat Base 25 1	509 20 ¹ /16	509 201/16	43 111/16	76 3	437 17 ^{3/16} 442 17 ³ /8	437 17 ^{3/16} 442 17 ³ /8	40 19/16 42.5 1 ¹¹ /16
39650050 39650070	50	Flat Base 25 1	444 171/2	574 225/8	43 111/16	76 3	372 145/8 377 14 ^{13/16}	502 19 ³ / ₄ 507 19 ¹⁵ / ₁₆	40 19/16 42.5 1 ¹¹ /16
39654050 39654070	54	Flat Base 25 1	459 18 ¹ /16	574 225/8	43 111/16	76 3	387 15 ¹ / ₄ 392 15 ⁷ / ₈	502 19 ³ / ₄ 507 19 ¹⁵ / ₁₆	40 1 ⁹ / ₁₆ 42.5 1 ¹¹ / ₁₆
39660050 39660070	60	Flat Base 25 1	574 225/8	574 225/8	43 111/16	76 3	502 19 ³ / ₄ 507 19 ¹⁵ / ₁₆	502 19 ³ / ₄ 507 19 ¹⁵ / ₁₆	40 1 ^{9/16} 42.5 1 ^{11/16}
39670050 39670070	70	Flat Base 25 1	694 275/16	694 27 ⁵ / ₁₆	43 111/16	76 3	622 241/2 627 24 ¹¹ /16	622 241/2 627 24 ¹¹ /16	40 19/16 42.5 1 ¹¹ /16
39677050 39677070	77	Flat Base 25 1	767 30 ^{3/} 16	767 303/16	43 1 ¹¹ / ₁₆	76 3	694 27 ⁵ / ₁₆ 699 27 ¹ / ₂	694275/16699271/2	40 1 ^{9/16} 42.5 1 ^{11/16}

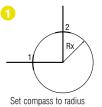
The specification charts below provide cut out dimensions for standard Medium & Low Profile Hatches and Portlights.

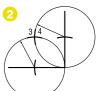




105.0

Using a Compass to Radius a Corner





Keeping compass setting constant



After setting do not adjust



						Overal	I Size							Dimen nkits are			
Part No	Size	Version	Wi	dth		ngth	Hei		Ra	dii	Cut- Wie	Out		Out ogth	Cut- Ra	Out	
			mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	
Standard	d Portl	light															Portlight Dimensions
393020200 ¹	0	Opening	176	615/16	323	12 11/16	4	5/32	62	27/16	156	61/8	303	11 ^{15/16}	52	21/16	
393120200	1	Opening	191	71/2	367	1 47/16	4	5/ ₃₂	62	27/16	171	6 ³ / ₄	347	135/8	52	21/16	
393180200	1RE	Opening	191	71/2	367	1 47/16	4	5/32	95	3 3/4	171	63/4	347	135/8	85.5	33/8	
393220200	2	Opening	176	615/16	425	16 ³ /4	4	5/32	62	27/16	156	61/8	405	1515/16	52	21/16	
393320200	3	Opening	191	71/2	449	17 ¹¹ / ₁₆	4	5/ ₃₂	62	27/16	171	6 ³ / ₄	429	167/8	52	21/16	i z
393420200	4	Opening	191	71/2	646	257/16	4	5/32	62	27/16	171	63/4	627	2411/16	52	21/16	Cut-Out
393460200*	4L	Opening	195	711/16	708	277/8	4	5/ ₃₂	62	27/16	175	67/8	688	271/16	52	21/16	
393440200*	4R	Opening	195	711/16	708	277/8	4	5/ ₃₂	62	27/16	175	67/8	688	271/16	52	21/16	
393520200	5	Opening	264	103/8	449	17 ¹¹ / ₁₆	4	5/32	62	27/16	244	9 5/8	429	167/8	52	21/16	
393780200*	7RE	Opening	191	71/2	425	16 ³ /4	4	5/32	95.5	3 3/4	171	63/4	405	1513/16	85.5	33/8	

Atlantic Portlight

39110090	10	Opening	174	67/8	304	12	6	1/4	71	213/16	154	61/16	284	11 ³ / ₁₆	61	23/8
39130090	30	Opening	200	77/8	400	153/4	6	1/4	71	213/16	180	71/16	380	1 4 ¹⁵ / ₁₆	61	23/8
39132090	32	Opening	200	77/8	400	153/4	6	1/4	100	315/16	180	71/16	380	14 ^{15/16}	90	3 %16
39140090*	40	Opening	200	77/8	480	187/8	6	1/4	71	213/16	180	71/16	460	18 ¹ /8	61	23/8
39160090*	60	Opening	200	77/8	600	235/8	6	1/4	71	213/16	180	71/16	580	2213/16	61	23/8

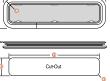
Stainless Portlight

393820862	8	Opening	196	711/16	452	17 13/16	1.5	1/16	n/a	n/a	

• All Portlights are supplied complete with 12 off M5 25mm screws (hull thickness 17-25mm). • Maximum hull thickness 34mm (1 38 in), minimum hull thickness 7mm (1/4 in). • Portlights should be fitted to a flat surface with a tolerance ± 1mm. • Clear acrylic and fixed Portlights are available - please refer to our website (www.lewmar.com). * Part No's marked with a * are made to order. Ivory trim part numbers end with 500 as opposed to 200 for white trim.

Roller Shade/Screen for Hatches

	,			A	В
Hatch	Trim & Roller	Trim Only	Roller	Length	Width
Size	Screen Together	(for roller screen)	Screen Only	mm in	mm in
10	367710252	368710252	367710972	398 15 ¹¹ /16	345 139/16
20	367720252	368720252	367720972	340 133/8	432 17
30	367730252	368730252	367730972	465 185/16	542 21 ⁵ /16
40	367740252	368740252	367740972	559 22	506 19 ¹⁵ /16
44	367744252	368744252	367744972	580 22 ¹³ /16	528 20 ¹³ /16
50	367750252	368750252	367750972	515 20 ¹ /4	592 23 ⁵ /16
54	367754252	368754252	367754972	531 207/8	592 235/16
60	367760252	368760252	367760972	645 253/8	592 235/16
70	367770252	368770252	367770972	765 301/8	712 28

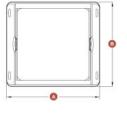


Stainless Dimensions



Roller Shade/Screen Dimensions

I.



Cross Section of Roller Shade/Screen





The following checklist takes into account all the issues normally encountered when planning a hatch or portlight installation.

General

Hatches and portlights should be fitted to a flat surface with maximum tolerance of +/- 1mm. For decks of composite construction (e.g. GRP) it is recommended that the exposed laminate be sealed with the appropriate material prior to fitting the hatch. Openings in metal decks should have all burs and sharp edges removed. It is recommended that the lower frame of the hatch is suitably insulated from the deck if there is a possibility of electrolytic corrosion with the aluminium frame of the hatch. Hatches and portlights should not be considered as stiffening members and it is recommended that the deck be adequately stiffened to prevent distortion during heavy weather. Cutting holes in the deck and hull can compromise the structural integrity of the boat. If in doubt, consult a competent yacht designer or surveyor.

Portlights

Figure 1

Portlights have a maximum and minimum deck thickness to which they may be fitted. Portlights fitted to hulls approaching the maximum deck thickness may have restricted opening. Portlights require different fastenings to suit different deck thicknesses. If the fastenings supplied with the portlight do not suit your hull thickness it will be necessary to order the required fastenings separately.

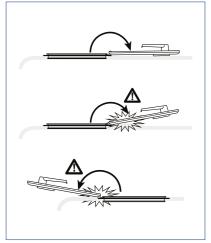
Hatches

Figure 2

Hatches should not be opened and closed more than necessary until the lower frame has been securely mounted to the deck. Hatches may be fitted to decks of any thickness. However, on thinner decks the flange in the lower frame may intrude into the cabin. If a Trimkit is being fitted the size of the hole cut out in the boat must be increased by 3mm. Hatch lids have to be opened past 90° in order to fasten the hatch to the deck. If an obstruction stops the hatch opening this far it will not be possible to fit it. When a hatch is fully open the lid should come to rest so that it is supported near the edge with the handles. If this is not the case, and the lid is supported near the hinges, the leverage on the lid may cause the hatch to be damaged.

Figure l







Tools/Consumables Checklist

- Bedding compound and application gun (silicone)
- □ Fastenings (supplied with portlights)
- Power drill and set of drill bits
- 🖵 Jig saw
- Screwdrivers, Allen keys, spanners depending on product
- Compass (for making hatch radii)
- 🖵 Felt tip pen
- 🖵 Ruler



Hatch Fitting Instructions

Removal of Existing Hatch

To eleviate delamination and associated damage to the deck, great care should be taken when removing the lower frame.

Figure 1

Make a bridge of wood over the corner of the hatch frame. Take care to protect the deck by placing cardboard or carpet under the feet of the bridge. Place a second piece of wood under the boat's inside hatch frame, across the same corner as the bridge. It may be necessary to make a mitre joint in the second piece of wood to ensure contact is only made with the hatch's lower frame.

Figure 2

Use a G clamp to pull the second piece of wood upwards towards the bridge. This will start to lift the lower frame off the deck.

Figure 3

As soon as the frame has lifted by a few millimetres use a sharp, thin bladed knife to cut the bedding compound between the frame and deck. Prior to fitting the new hatch ensure all the old sealant has been removed and the old fastening holes have been filled.

Retro Hatch Fitting – Mark the Cut Out

Before marking up the hatch cut out area ensure it is being fitted to a flat surface (+/- 1mm).

Figure 4

Mark the cut out dimensions of the hatch onto the deck. Remember, if a trim is being fitted it will be necessary to increase the cut out by the amount stated. To mark up the hatch's corners follow the "How to radius a corner" instructions on Page 5.

Figure 5

Offer the hatch up to the marked out dimensions to check accuracy.

Cut & Drill

Take care to avoid any power cables, gas pipes or other services. Please ensure that you use the appropriate safety equipment such as electrical power breakers and safety glasses.

Figure 6

Drill a hole for the jigsaw blade on the waste side of the cut line.

Figure 7

Use a jigsaw to cut the aperture through the boat. It may be necessary to cut or remove the headlining.

Figure 8

Alternatively, a hole cutter that matches the corner radii may be used to cut the corners.

Fitting Instructions continue on the next page.

Figure 1



Figure 2



Figure 3





Figure 5



Figure 7





Figure 9

Test fit the hatch before applying sealant.

Figure 10

While the hatch is in place mark the lower frame fixing holes.

Figure 11

With the hatch removed from the deck drill all fastening holes. The hinges should be through bolted while self-tapping screws can be used for fitting the remainder of the frame.

Bed Down & Seal

When you are entirely happy with the installation of the hatch. Apply a generous bead of bedding compound all the way around the frame where it is in contact with the deck.

Figure 12

Apply sealant to both sides of the fastening holes on the hatch frame. If replacing an existing hatch, fill any old fixing holes with sealant.

Figure 13

Refit the hatch to the deck. Around the hatch frame a small amount of bedding compound should be forced out of the gap between the frame and deck. Fasten the lower frame to the deck.

Figure 14

The hatch should be through bolted in the hinge areas, while self-tapping screws can be used for fitting the remainder of the lower frame to the deck sheet.

Figure 15

Clean up excess bedding compound.

Figure 16

Finished hatch installation.





Figure 10



Figure 11

Figure 12





Figure 13



Figure 14



Figure 15



Mark the Cut Out

Figure 1

Cut out the template provided and check it is accurate by placing it over the back of the portlight. Portlights should be fitted to a flat surface (+/-1 mm.) Tape the template to the boat and mark the cut line.

Cut & Drill

Take care to avoid any power cables, gas pipes or other services. Please ensure that you use the appropriate safety equipment such as electrical power breakers and safety glasses.

Figure 2

Drill a hole for the jigsaw blade on the waste side of the cut line.

Figure 3

Use the jigsaw to cut the aperture through the boat.

Figure 4

It may be necessary to cut or remove the headlining.

Test Fit

Figure 5

Portlights are fitted by clamping the outer frame against the deck using the inner frame inside the boat.

Figure 6

Test fit the portlight and clamp ring before applying sealant.

Fitting Instructions continue on the next page.



Figure 1



Figure 2

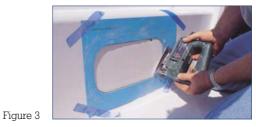




Figure 4





Bed Down & Seal

If you are replacing an old portlight, fill any old fixing holes with sealant.

Figure 7

When you are entirely happy with the installation of the portlight, remove and set it aside. Apply a generous bead of bedding compound all the way around the frame where it is in contact with the deck.

Figure 8

Refit the portlight to the boat. A small amount of bedding compound should be forced out of the gap between the frame and the deck the whole way round the frame.

Figure 9

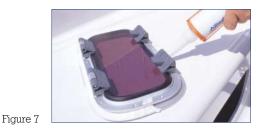
Clamp the outer frame to the inner frame with the fixings enclosed. Ensure the fixing threads are greased.

Figure 10

Clean up the excess bedding compound.

Figure 11

Finished portlight installation.



CP (

Figure 8



Figure 9



Figure 10



Key Features:

- Fits to hatch or deck*.
- Styled to match the Low & Medium Profile hatches.
- Captive bung it can't be lost.
- Fits deck thickness to 100mm*.
- CE Approved and leak tested.
- No sealant required.
- * Trim not included for deck fitting.

Figure 1 & 2

When cutting or drilling acrylic it is necessary to come in from both sides. Drilling or cutting all the way through will result in the acrylic breaking out when the cutter comes through.

Drilling and Cutting

Figure 3

Tape the vent template to the hatch ensuring it is clear of all handles, stays etc.

Figure 4

Drill a pilot hole for the hole saw.

Figure 5 & 6

Cut the hole in from both sides using an 80mm (3") hole saw. Take care to support the hatch lid and to protect the deck when drilling the underside of the hatch lid.

Figure 7

Drill pilot holes for fastenings.

Figure 8

Drill 6mm (1/4") fastening holes from both sides. Take care to support the hatch lid and to protect the deck when drilling the underside of the hatch lid.

Assembly & Fastening

Figure 9

Assemble ventilator with internal parts, o-rings and seal all in place.

Figure 10

Fit to the hatch.

Figure 11

Fasten from the inside.

Figure 12

Finished vent installation.

Figure 13

The vent may also be fitted to decks. Blanked out top down fastening holes are included and may be broken through if required. When top down fastening, use sealant to seal the screw holes. It will be necessary to use fixings other than those supplied. A trim is available on part number 361042992.



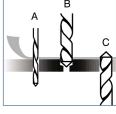




Figure 4

Figure 2





Figure 6

Figure 8

Figure 10







Figure 9

Figure 1

Figure 3

Figure 5







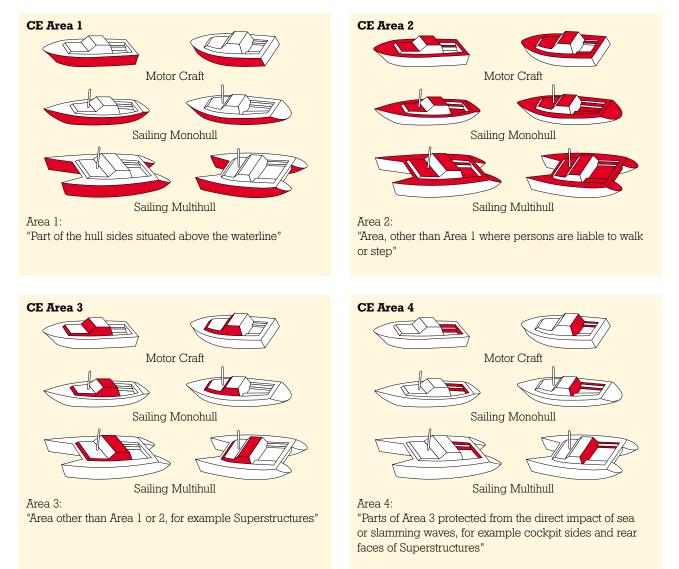


Figure 12





CE Areas



These drawings are notes for guidance only, when specifying a boat please consult the full regulations.

CE Approval

The CE Regulations apply to craft up to 24m in length, which are sold in the European Union. Although the regulations may not apply to your boat, they are a useful guide for small craft throughout the world.

Lewmar warranties are invalid if the product is installed in an area where it was not intended, and if the installation fails to meet the requirements of the CE regulations.

The Regulations divide up the boats hull and deck into four specific "Areas". A product, which is suitable for fitting to an area for which it is approved, is suitable for all the areas below its category. For example, a portlight, which is approved for Area 2 may also be fitted to Areas 3 and 4, but not Area 1.

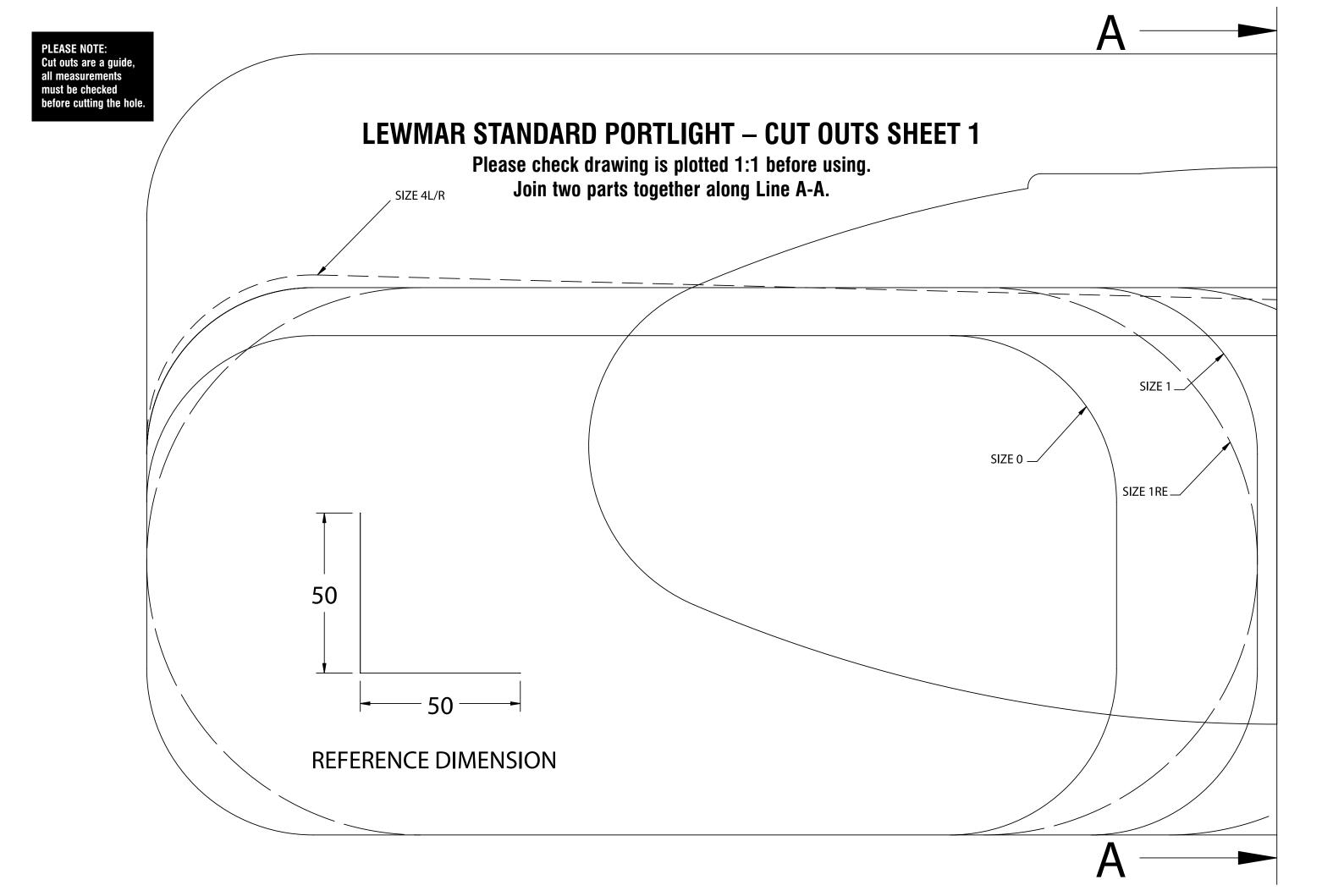
All the hatches and portlights in this publication are CE Approved for the areas for which they are shown on the product pages. NB: For craft with a freeboard greater than 1/12 of their overall length, a different upper limit applies to Area 1. Please refer to the recreational craft directive 94/25/EC.

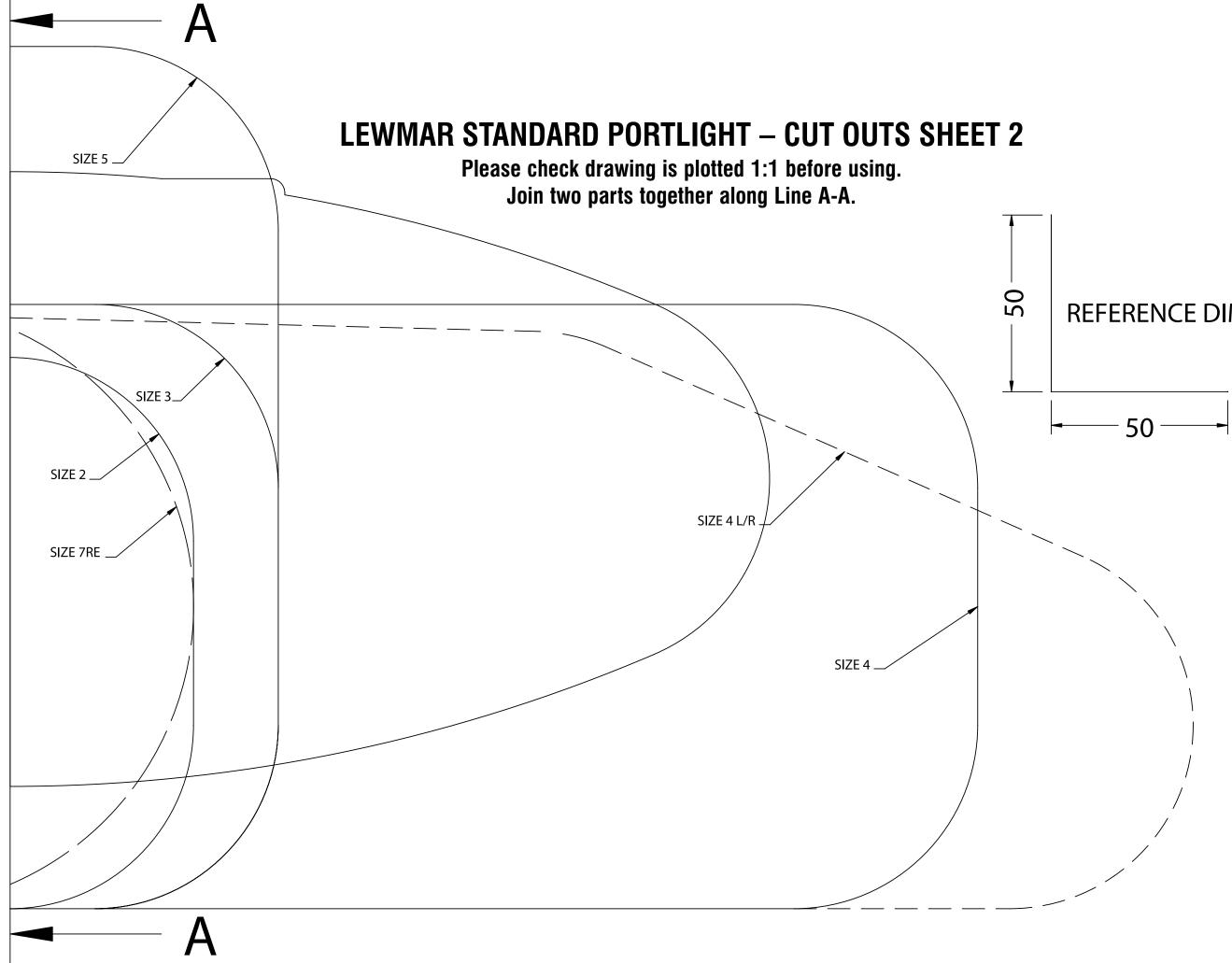
Hatches		
Description	Sizes	Area
Low Profile Hatch	All	2
Medium Profile Hatch	All	2
Ocean Hatch	All	2

For more details on the CE Regulations, please refer to the recreational craft directive 94/25/EC.

Portlights

Sizes	Area
0, 1, 1RE & 2	1
3, 4, 4L, 4R & 7RE	2
All	2
All	1
10, 30, 32	1
40, 60	2
8	2
	0, 1, 1RE & 2 3, 4, 4L, 4R & 7RE All All 10, 30, 32





PLEASE NOTE: Cut outs are a guide all measurements must be checked before cutting the hole.

REFERENCE DIMENSION







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