

Hatch & Portlight Fitting Guide

LEWMAR

www.lewmar.com

Introduction



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 +/- lmm. 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.

What Hatch?

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.



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.













Filgure 3



Figure 4



Figure 5



Figure 6



Figure 7



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.

What Portlight?

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.

Stainless Portlight

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 left & right hand Standard Portlights. Flyscreens are not available on these models.



Figure 8



Figure 9

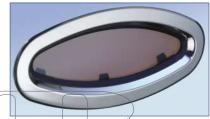


Figure 10

All product complies with relevant parts of International Standards ISO/DIS 12216.2(E)

Approved This standard covers the applicable essential safety requirements of the Recreational

Craft Directive 94/25EC.

Hatch & Portlight Specifications & Dimensions

		Overall Size								Cut-Out Size Dimensions change if Trimkits are used							specific s belov	cation w provide		
Part No	Size	Fra	wer ame .nge		ngth	•	y idth		2 ight		a dii	Cut	Out gth	Cut	7) :-Out idth		Out Idii	stand Low 1	ard Me	ensions for edium & Hatches
		mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	and r	oruigi.	IIS.
Low Pro	file H	atch																Ha	tch Di	mensions
39900030	00	15	9/16		1 11/16		1 11/16	25	1		3 1/16	211	8 5/16	211	8 5/16		1 11/16		0	2
39903030	03	15	9/16		9 11/16	301		25	1		3 1/16		6 ¹⁵ / ₁₆	231	9 1/8		1 11/16			
39910030	10	15	9/16	330	12	330	12	25	1		3 1/16		10 1/4	260			1 11/16			
39920030	20	15	9/16		10 11/16		16 7/16	25	1		3 1/16		7 15/16		13 11/16		1 11/16			
39930030	30	15	9/16		15 5/8		20 3/4	25	1		3 1/16		12 7/8	457	18		1 11/16			
39940030	40	15	9/16		19 5/16		19 5/16	25	1		3 1/16		16 9/16		16 9/16				P -	
39941030*	41	15	9/16		9 11/16		19 5/16	25	1		3 1/16		6 15/16		16 9/16	42.5	1 11/16			
39944030	44	15	9/16		20 3/16		20 3/16	25	1		3 1/16		17 3/8		17 3/8		1 11/16			0
39950030	50	15	9/16		17 5/8		22 11/16		1		3 1/16		14 13/16		19 15/16		1 11/16		a	
39954030	54	15	9/16		18 3/16		22 11/16		1		3 1/16		15 7/16		19 15/16				Cur	t-Out
39960030 39965030*	60 65	15 15	9/16 9/16		22 1/16	675 [†]	22 ¹¹ / ₁₆ 26 ⁹ / ₁₆ [†] 22 ¹ / ₁₆ [†]	25 25	1		3 1/16		e Drawi		19 ¹⁵ / ₁₆ ove		1 11/16		Cu	
1/4"). *Part No	Profi	le Ha	atch	\		(405.0	Cu	t-Out R42.5
39930020	30	15	9/16			527	-	32	1 1/4	8,7	3 1/16		12 7/8	457	18	_	1 11/16		1)2.6
											•							1	40	12.0
39940020	40	15	9/16/		19 3/8	492		32	1 1/4	78	3 1/16		16 9/16		16 9/16	_	1 11/16		40	,,,,
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			
39944020 39950020	44 50	15 15	9/16 9/16	513 448	20 ^{3/16} 17 ^{5/8}	513 578	20 ³ / ₁₆ 22 ³ / ₄	32 32	1 1/ ₄ 1 1/ ₄	78 78	3 1/16	442 377	17 ³ /8 ₃	442 507	17 ^{3/8} 19 ^{15/} 16	42.5 42.5	1 11/ ₁₆ 1 11/ ₁₆		sing a (Compass
39944020 39950020 39954020	44 50 54	15 15 15	9/16 9/16 9/16	513 448 463	20 ^{3/16} 17 ^{5/8} 18 ^{1/4}	513 578 578	20 ³ / ₁₆ 22 ³ / ₄ 22 ³ / ₄	32 32 32	1 1/4 1 1/4 1 1/4	78 78 78	3 1/16 3 1/16 3 1/16	442 377 392	17 ³ /8 ₆ 14 ¹³ / ₁₆ 15 ⁷ / ₁₆	442 507 507	17 ^{3/8} 19 ^{15/} 16 19 ^{15/} 16	42.5 42.5 42.5	1 11/16 1 11/16 1 11/16	to	sing a (
39944020 39950020 39954020 39960020	44 50 54 60	15 15 15 15	9/16 9/16 9/16 9/16	513 448 463 578	20 ³ / ₁₆ 17 ⁵ / ₈ 18 ¹ / ₄ 22 ³ / ₄	513 578 578 578	20 ³ / ₁₆ 22 ³ / ₄ 22 ³ / ₄ 22 ³ / ₄	32 32 32 32	1 1/4 1 1/4 1 1/4 1 1/4	78 78 78 78	3 1/16 3 1/16 3 1/16 3 1/16	442 377 392 507	17 ³ / ₈ ₃ 14 ¹³ / ₁₆ 15 ⁷ / ₁₆ 19 ¹⁵ / ₁₆	442 507 507 507	17 ^{3/8} 19 ^{15/} 16 19 ^{15/} 16 19 ^{15/} 16	42.5 42.5 42.5 42.5	1 11/16 1 11/16 1 11/16 1 11/16		sing a (Compass
39944020 39950020 39954020	44 50 54	15 15 15	9/16 9/16 9/16	513 448 463 578 698	20 ^{3/16} 17 ^{5/8} 18 ^{1/4}	513 578 578 578 578 698	20 ³ / ₁₆ 22 ³ / ₄ 22 ³ / ₄	32 32 32 32 32	1 1/4 1 1/4 1 1/4	78 78 78	3 1/16 3 1/16 3 1/16	442 377 392 507 627	17 ³ /8 ₆ 14 ¹³ / ₁₆ 15 ⁷ / ₁₆	507 507 507 627	17 ^{3/8} 19 ^{15/} 16 19 ^{15/} 16	42.5 42.5 42.5 42.5 42.5	1 11/16 1 11/16 1 11/16 1 11/16	to	sing a (Compass
39944020 39950020 39954020 39960020 39970020	44 50 54 60 70 77	15 15 15 15 15	9/16 9/16 9/16 9/16 9/16	513 448 463 578 698	20 ³ / ₁₆ 17 ⁵ / ₈ 18 ¹ / ₄ 22 ³ / ₄ 27 ¹ / ₂	513 578 578 578 578 698	20 ³ / ₁₆ 22 ³ / ₄ 22 ³ / ₄ 22 ³ / ₄ 27 ¹ / ₂	32 32 32 32 32	1 1/4 1 1/4 1 1/4 1 1/4 1 1/4	78 78 78 78 78	3 1/16 3 1/16 3 1/16 3 1/16 3 1/16	442 377 392 507 627	17 3/8 2 14 13/16 15 7/16 19 15/16 24 11/16	507 507 507 627	17 3/8 19 15/16 19 15/16 19 15/16 24 11/16	42.5 42.5 42.5 42.5 42.5	1 11/16 1 11/16 1 11/16 1 11/16 1 11/16	to	sing a (Compass a Corner
39944020 39950020 39954020 39960020 39970020 39977020* Ocean H 39600050*	44 50 54 60 70 77	15 15 15 15 15 15	9/16 9/16 9/16 9/16 9/16	513 448 463 578 698 770	20 ³ / ₁₆ 17 ⁵ / ₈ 18 ¹ / ₄ 22 ³ / ₄ 27 ¹ / ₂	513 578 578 578 698 770	20 ³ / ₁₆ 22 ³ / ₄ 22 ³ / ₄ 22 ³ / ₄ 27 ¹ / ₂	32 32 32 32 32 32 32	1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4	78 78 78 78 78	3 1/16 3 1/16 3 1/16 3 1/16 3 1/16	442 377 392 507 627 699	17 3/8 2 14 13/16 15 7/16 19 15/16 24 11/16 27 1/2	507 507 507 627 699	17 3/8 19 15/16 19 15/16 19 15/16 24 11/16 27 1/2	42.5 42.5 42.5 42.5 42.5 42.5 42.5	1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16	to :	sing a (Radius	Compass a Corner
39944020 39950020 39954020 39960020 39970020 39977020*	44 50 54 60 70 77 Hatch	15 15 15 15 15 15 15 15	9/16 9/16 9/16 9/16 9/16 9/16 9/16	513 448 463 578 698 770	20 3/16 17 5/8 18 1/4 22 3/4 27 1/2 30 5/16	513 578 578 578 698 770	20 3/16 22 3/4 22 3/4 22 3/4 27 1/2 30 5/16	32 32 32 32 32 32 32 32	1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4	78 78 78 78 78 78 78	3 1/16 3 1/16 3 1/16 3 1/16 3 1/16 3 1/16 211/16	442 377 392 507 627 699	17 3/8 2 14 13/16 15 7/16 19 15/16 24 11/16 27 1/2	507 507 507 627 699 201 206	17 3/8 19 15/16 19 15/16 19 15/16 24 11/16 27 1/2 715/16 81/8	42.5 42.5 42.5 42.5 42.5 42.5	1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16	to :	sing a (Radius	Compass a Corner
39944020 39950020 39954020 39960020 39970020 39977020* Ocean F 39600050* 39600070*	44 50 54 60 70 77	15 15 15 15 15 15 15 15	9/16 9/16 9/16 9/16 9/16 9/16 9/16	513 448 463 578 698 770	20 3/16 17 5/8 18 1/4 22 3/4 27 1/2 30 5/16	513 578 578 578 698 770	20 3/16 22 3/4 22 3/4 22 3/4 27 1/2 30 5/16	32 32 32 32 32 32 32 32	1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4	78 78 78 78 78 78	3 1/16 3 1/16 3 1/16 3 1/16 3 1/16 3 1/16	442 377 392 507 627 699 201 206 255	17 3/8 3/16 14 13/16 15 7/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16	507 507 507 627 699 201 206 255	17 3/8 19 15/16 19 15/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16	42.5 42.5 42.5 42.5 42.5 42.5 42.5 42.5	1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 17/16 1 17/16	to :	sing a (Radius	Compass a Corner
39944020 39950020 39954020 39960020 39970020 39977020* Ocean H 39600050* 39610050	44 50 54 60 70 77 Hatch 0	15 15 15 15 15 15 15 15 Flat 25 Flat 25	9/16 9/16 9/16 9/16 9/16 9/16 9/16 Base 1	513 448 463 578 698 770 275 324	20 3/16 17 5/8 18 1/4 22 3/4 27 1/2 30 5/16 1013/16	513 578 578 578 698 770 275	20.3/ ₁₆ 22.3/ ₄ 22.3/ ₄ 22.3/ ₄ 27.1/ ₂ 30.5/ ₁₆ 10.13/ ₁₆	32 32 32 32 32 32 32 39.5	1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4	78 78 78 78 78 78 78 69	3 1/16 3 1/16 3 1/16 3 1/16 3 1/16 3 1/16 211/16	442 377 392 507 627 699	17 3/8 2 14 13/16 15 7/16 19 15/16 24 11/16 27 1/2 715/16 81/8	507 507 507 627 699 201 206 255 260	17 3/8 19 15/16 19 15/16 19 15/16 24 11/16 27 1/2 715/16 81/8	42.5 42.5 42.5 42.5 42.5 42.5 42.5 42.5	1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16	to :	sing a (Radius	Compass a Corner
39944020 39950020 39954020 39960020 39970020 39977020* Ocean F 39600050* 39610050 39610070	44 50 54 60 70 77 Hatch	15 15 15 15 15 15 15 15 Flat 25 Flat 25	9/16 9/16 9/16 9/16 9/16 9/16 9/16 Base 1 Base	513 448 463 578 698 770 275 324	20 3/16 17 5/8 18 1/4 22 3/4 27 1/2 30 5/16	513 578 578 578 698 770 275	20 3/16 22 3/4 22 3/4 22 3/4 27 1/2 30 5/16	32 32 32 32 32 32 32 39.5	1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4	78 78 78 78 78 78 78 69	3 1/16 3 1/16 3 1/16 3 1/16 3 1/16 3 1/16 211/16	442 377 392 507 627 699 201 206 255 260 197	17 3/8 2 14 13/16 15 7/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4	442 507 507 507 627 699 201 206 255 260 342	17 3/8 19 15/16 19 15/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4	42.5 42.5 42.5 42.5 42.5 42.5 42.5 42.5	1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 15/16 1 7/16 1 19/16 1 11/16	to :	sing a (Radius	Compass a Corner
39944020 39950020 39954020 39960020 39970020 39977020* Ocean F 39600050* 39610050 39610070 39620050 39620070 39630050	44 50 54 60 70 77 Hatch 0	15 15 15 15 15 15 15 15 15 Flat 25 Flat 25 Flat 25 Flat	9/16 9/16 9/16 9/16 9/16 9/16 9/16 9/16	513 448 463 578 698 770 275 324 266	20 3/16 17 5/8 18 1/4 22 3/4 27 1/2 30 5/16 1013/16	513 578 578 578 698 770 275 324 411	20.3/ ₁₆ 22.3/ ₄ 22.3/ ₄ 22.3/ ₄ 27.1/ ₂ 30.5/ ₁₆ 10.13/ ₁₆	32 32 32 32 32 32 32 39.5 39.5	1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 9/16	78 78 78 78 78 78 78 69 75	3 1/16 3 1/16 3 1/16 3 1/16 3 1/16 3 1/16 211/16	442 377 392 507 627 699 201 206 255 260 197 202 322	17 3/8 c 14 13/16 15 7/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4 73/4 715/16 1211/16	442 507 507 507 627 699 201 206 255 260 342 347 452	17 3/8 19 15/16 19 15/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4 137/16 1311/16 1713/16	42.5 42.5 42.5 42.5 42.5 42.5 42.5 42.5	1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 17/16 1 11/16 1 11/16 1 11/16 1 11/16 1 17/16 1 17/16 1 17/16	to :	sing a (Radius	Compass a Corner
39944020 39950020 39954020 39960020 39970020 39977020* Ocean F 39600050* 39610050 39610070 39620050 39620070 39630050 39630050 39630070	44 50 54 60 70 77 latch 0	15 15 15 15 15 15 15 15 15 Flat 25 Flat 25 Flat 25 Flat 25	9/16 9/16 9/16 9/16 9/16 9/16 9/16 9/16 Base 1 Base 1 Base 1	513 448 463 578 698 770 275 324 266	20 3/16 17 5/8 18 1/4 22 3/4 27 1/2 30 5/16 1013/16 123/4 101/2	513 578 578 578 698 770 275 324 411	20.3/16 22.3/4 22.3/4 22.3/4 27.1/2 30.5/16 10.13/16 12.3/4 16.3/16	32 32 32 32 32 32 32 39.5 39.5	1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 9/16	78 78 78 78 78 78 78 69 75	3 1/16 3 1/16 3 1/16 3 1/16 3 1/16 3 1/16 211/16 211/16	442 377 392 507 627 699 201 206 255 260 197 202 322 327	17 3/8 c 14 13/16 15 7/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4 73/4 715/16 121/16 127/8	201 206 255 260 342 457	17 3/8 19 15/16 19 15/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4 137/16 1311/16 18	42.5 42.5 42.5 42.5 42.5 42.5 42.5 42.5	1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 1/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16	to :	sing a (Radius	Compass a Corner
39944020 39950020 39950020 39960020 39970020 39977020* Ocean F 39600050* 39610070 39620050 39620070 39630050 39630070 39640050	44 50 54 60 70 77 latch 0	15 15 15 15 15 15 15 15 15 Flat 25 Fla	9/16 9/16 9/16 9/16 9/16 9/16 9/16 9/16 Base 1 Base 1 Base 1 Base	513 448 463 578 698 770 275 324 266 391	20 3/16 17 5/8 18 1/4 22 3/4 27 1/2 30 5/16 1013/16 123/4 101/2	513 578 578 578 698 770 275 324 411 521	20.3/16 22.3/4 22.3/4 22.3/4 27.1/2 30.5/16 10.13/16 12.3/4 16.3/16	32 32 32 32 32 32 32 39.5 39.5	1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/6 1 19/16	78 78 78 78 78 78 78 69 75	3 1/16 3 1/16 3 1/16 3 1/16 3 1/16 3 1/16 211/16 215/16 215/16	442 377 392 507 627 699 201 206 255 260 197 202 322 327 416	17 3/8 c 14 13/16 15 7/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4 73/4 715/16 121/16 127/8 163/8	442 507 507 627 699 201 206 255 260 342 347 452 457 416	17 3/8 19 15/16 19 15/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4 137/16 1713/16 18 163/8	42.5 42.5 42.5 42.5 42.5 42.5 42.5 42.5	1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 17/16 1 11/16 1 5/16 1 11/16 1 19/16 1 11/16 1 11/16 1 11/16 1 11/16	to :	sing a (Radius	Compass a Corner
39944020 39950020 39950020 39960020 39970020 39977020* Ocean H 39600050* 39610070 39610070 39620050 39620070 39630050 39630070 39640050 39640050 39640070	44 50 54 60 70 77 datch 0 10 20	15 15 15 15 15 15 15 15 15 15 Flat 25 Flat 25 Flat 25 Flat 25 Flat 25 Flat 25	9/16 9/16 9/16 9/16 9/16 9/16 9/16 9/16 1 Base 1 Base 1 Base 1 Base 1 Base	513 448 463 578 698 770 275 324 266 391 485	20 3/16 17 5/8 18 1/4 22 3/4 27 1/2 30 5/16 1013/16 123/4 101/2 153/8 191/8	513 578 578 578 698 770 275 324 411 521 485	20.3/16 22.3/4 22.3/4 22.3/4 27.1/2 30.5/16 10.13/16 12.3/4 16.3/16 20.1/2	32 32 32 32 32 32 32 39.5 39.5 39.5	1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/6 1 19/16 1 19/16	78 78 78 78 78 78 78 78 69 75 69	3 1/16 3 1/16 3 1/16 3 1/16 3 1/16 3 1/16 211/16 215/16 215/16	442 377 392 507 627 699 201 206 255 260 197 202 322 327 416 421	17 3/8 c 14 13/16 15 7/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4 73/4 715/16 121/16 127/8 163/8 169/16	201 206 255 260 342 457 416 421	17 3/8 19 15/16 19 15/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4 137/16 1713/16 18 163/8 169/16	42.5 42.5 42.5 42.5 42.5 42.5 42.5 40.5 42.5 40.6 42.5 40.6 42.5 40.6 42.5 40.6 42.5	1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 17/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16	to :	sing a (Radius	Compass a Corner 2 Rx Ss to radius compass
39944020 39950020 39950020 39960020 39970020 39977020* Ocean H 39600050* 39610050 39610070 39620070 39620070 39630070 39640050 39640050 39640050 39640050	44 50 54 60 70 77 datch 0 10 20	15 15 15 15 15 15 15 15 15 15 Flat 25	9/16 9/16 9/16 9/16 9/16 9/16 9/16 9/16 9/16 Base 1 Base 1 Base 1 Base 1 Base 1 Base	513 448 463 578 698 770 275 324 266 391 485	20 3/16 17 5/8 18 1/4 22 3/4 27 1/2 30 5/16 1013/16 123/4 101/2	513 578 578 578 698 770 275 324 411 521 485	20.3/16 22.3/4 22.3/4 22.3/4 27.1/2 30.5/16 10.13/16 12.3/4 16.3/16	32 32 32 32 32 32 32 39.5 39.5 39.5	1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/6 1 19/16	78 78 78 78 78 78 78 78 69 75 69	3 1/16 3 1/16 3 1/16 3 1/16 3 1/16 3 1/16 211/16 215/16 215/16	442 377 392 507 627 699 201 206 255 260 197 202 322 327 416 421 437	17 3/8 c 14 13/16 15 7/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4 73/4 715/16 1211/16 127/8 163/8 169/16 173/16	201 206 255 260 342 457 416 421 437	17 3/8 19 15/16 19 15/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4 137/16 1311/16 18 163/8 169/16 173/16	42.5 42.5 42.5 42.5 42.5 42.5 42.5 40.5 40.5 42.5 40.5 42.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40	1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 17/16 1 11/16 1 15/16 1 17/16 1 11/16 1 19/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16	to :	sing a (Radius	Compass a Corner 2 Rx Ss to radius compass
39944020 39950020 39950020 39960020 39970020 39977020* Ocean H 39600050* 39610050 39620070 39620070 39630050 39630070 39640050 39640070 39644050 39644070	44 50 54 60 70 77 latch 0 10 20 30 40	15 15 15 15 15 15 15 15 15 Flat 25 Fla	9/16 9/16 9/16 9/16 9/16 9/16 9/16 9/16 9/16 Base 1 Base 1 Base 1 Base 1 Base 1 Base	513 448 463 578 698 770 275 324 266 391 485	20 3/16 17 5/8 18 1/4 22 3/4 27 1/2 30 5/16 1013/16 123/4 101/2 153/8 191/8 201/16	513 578 578 578 578 698 770 275 324 411 521 485 509	20.3/16 22.3/4 22.3/4 22.3/4 27.1/2 30.5/16 10.13/16 12.3/4 16.3/16 20.1/2 19.1/8 20.1/16	32 32 32 32 32 32 32 39.5 39.5 39.5 39.5	1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/6 1 19/16 1 19/16 1 1 1/16	78 78 78 78 78 78 78 78 75 69 75 75 76	3 1/16 3 1/16 3 1/16 3 1/16 3 1/16 211/16 215/16 215/16 215/16	201 206 255 260 197 202 322 327 416 421 437 442	17 3/8 c 14 13/16 15 7/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4 73/4 715/16 1211/16 127/8 163/8 169/16 173/16 173/8	201 206 255 260 342 457 416 421 437 442	17 3/8 19 15/16 19 15/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4 137/16 1311/16 1713/16 18 163/8 169/16 173/16 173/8	42.5 42.5 42.5 42.5 42.5 42.5 42.5 40 42.5 40 42.5 40 42.5 40 42.5 40 42.5	1 11/16 1 11/16	to) 1 S 2	sing a (Radius	Compass a Corner 2 Rx Ss to radius compass
39944020 39950020 39950020 39960020 39970020 39977020* Ocean H 39600050* 39610050 39610070 39620070 39630050 39630070 39640050 39640070 39644050 39644050 39644050 39650050	44 50 54 60 70 77 Hatch 0 10 20 30	15 15 15 15 15 15 15 15 15 Flat 25 Fla	9/16 9/16 9/16 9/16 9/16 9/16 9/16 9/16 9/16 Base 1 Base 1 Base 1 Base 1 Base 1 Base 1 Base	513 448 463 578 698 770 275 324 266 391 485	20 3/16 17 5/8 18 1/4 22 3/4 27 1/2 30 5/16 1013/16 123/4 101/2 153/8 191/8	513 578 578 578 578 698 770 275 324 411 521 485 509	20.3/16 22.3/4 22.3/4 22.3/4 27.1/2 30.5/16 10.13/16 12.3/4 16.3/16 20.1/2	32 32 32 32 32 32 32 39.5 39.5 39.5 39.5	1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/6 1 19/16 1 19/16	78 78 78 78 78 78 78 78 75 69 75 75	3 1/16 3 1/16 3 1/16 3 1/16 3 1/16 211/16 215/16 215/16	442 377 392 507 627 699 201 206 255 260 197 202 322 416 421 437 442 372	17 3/8 c 14 13/16 15 7/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4 73/4 715/16 1211/16 127/8 163/8 169/16 173/16 173/8 145/8	507 507 627 699 201 206 255 260 342 457 416 421 437 442 502	17 3/8 19 15/16 19 15/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4 137/16 1311/16 163/8 169/16 173/16 173/8 193/4	42.5 42.5 42.5 42.5 42.5 42.5 42.5 40 42.5 40 42.5 40 42.5 40 42.5 40 42.5 40 42.5	1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 17/16 1 11/16 1 11/16	to) 1 S 2	sing a (Radius	Compass a Corner 2 Rx Ss to radius compass
39944020 39950020 39950020 39960020 39970020 39977020* Ocean H 39600050* 39610050 39620050 39620070 39630050 39640050 39640050 39640070 39644050 39644050 39650050 39650050	44 50 54 60 70 77 Hatch 0 10 20 30 40 44 50	15 15 15 15 15 15 15 15 15 Flat 25 Fla	9/16 9/16 9/16 9/16 9/16 9/16 9/16 9/16 9/16 Base 1 Base 1 Base 1 Base 1 Base 1 Base 1 Base	513 448 463 578 698 770 275 324 266 391 485 509	20 3/16 17 5/8 18 1/4 22 3/4 27 1/2 30 5/16 1013/16 123/4 101/2 153/8 191/8 201/16	513 578 578 578 578 698 770 275 324 411 521 485 509	20.3/16 22.3/4 22.3/4 27.1/2 30.5/16 10.13/16 12.3/4 16.3/16 20.1/2 19.1/8 20.1/16 22.5/8	32 32 32 32 32 32 32 39.5 39.5 39.5 39.5 43 43	1 1/4 1 1/6 1 1 1/16 1 1 1/16 1 1 1/16	78 78 78 78 78 78 78 79 75 69 75 75 76	3 1/16 3 1/16 3 1/16 3 1/16 3 1/16 2 11/16 2 11/16 2 15/16 2 15/16 3 3	201 206 255 260 197 202 322 327 416 421 437 442 372 377	17 3/8 c 14 13/16 15 7/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4 73/4 715/16 1211/16 127/8 163/8 169/16 173/16 173/18 145/8 1413/16	507 507 627 699 201 206 255 260 342 347 452 457 416 421 437 442 502 507	17 3/8 19 15/16 19 15/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4 137/16 1311/16 1713/16 18 163/8 169/16 173/16 173/16 173/8 193/4 1915/16	42.5 42.5 42.5 42.5 42.5 42.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40	1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 19/16 1 11/16 1 11/16	to) 1 S 2	sing a (Radius	Compass a Corner 2 Rx Ss to radius compass
39944020 39950020 39950020 39950020 39960020 39970020 39977020* Ocean H 39600050* 39610050 39610050 39620070 39630050 39630070 39640050 39640070 39644050 39644050 39650050 39650050 39650050	44 50 54 60 70 77 latch 0 10 20 30 40	15 15 15 15 15 15 15 15 15 Flat 25 Fla	9/16 9/16 9/16 9/16 9/16 9/16 9/16 9/16 9/16 Base 1 Base Bas	513 448 463 578 698 770 275 324 266 391 485 509	20 3/16 17 5/8 18 1/4 22 3/4 27 1/2 30 5/16 1013/16 123/4 101/2 153/8 191/8 201/16	513 578 578 578 578 698 770 275 324 411 521 485 509	20.3/16 22.3/4 22.3/4 22.3/4 27.1/2 30.5/16 10.13/16 12.3/4 16.3/16 20.1/2 19.1/8 20.1/16	32 32 32 32 32 32 32 39.5 39.5 39.5 39.5 43 43	1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/6 1 19/16 1 19/16 1 1 1/16	78 78 78 78 78 78 78 78 75 69 75 75 76	3 1/16 3 1/16 3 1/16 3 1/16 3 1/16 211/16 215/16 215/16 215/16	442 377 392 507 627 699 201 206 255 260 197 202 322 327 416 421 437 442 372 377 387	17 3/8 c 14 13/16 15 7/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4 73/4 715/16 127/8 163/8 169/16 173/16 173/8 145/8 1413/16	442 507 507 627 699 201 206 255 260 342 347 452 457 416 421 437 442 502 507 502	17 3/8 19 15/16 19 15/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4 137/16 1311/16 163/8 169/16 173/16 173/16 173/8 193/4 1915/16 193/4	42.5 42.5 42.5 42.5 42.5 42.5 42.5 40 42.5 40 42.5 40 42.5 40 42.5 40 42.5 40 42.5	1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 19/16 1 11/16 1 11/16	to) 1 S 2	sing a (Radius	Compass a Corner 2 Rx Ss to radius compass
39944020 39950020 39950020 39950020 39960020 39970020 39977020* Ocean H 39600050* 39610050 39610050 39620050 39630050 39640050 39640050 39644050 39644050 39650050 39650050 39650070 39654050 39654050 39654070	44 50 54 60 70 77 latch 0 10 20 30 40 44 50	15 15 15 15 15 15 15 15 15 15 Flat 25 25 Flat	9/16 9/16 9/16 9/16 9/16 9/16 9/16 9/16 9/16 Base 1 Basse 1 Basse 1 Basse 1 Basse 1 Basse 1 Basse 1 Basse 1 Basse 1 Basse 1 Basse 1 Basse 1 Basse 1 Basse 1 Bass Ba	513 448 463 578 698 770 275 324 266 391 485 509 444 459	20 3/16 17 5/8 18 1/4 22 3/4 27 1/2 30 5/16 1013/16 123/4 101/2 153/8 191/8 201/16 171/2	513 578 578 578 578 698 770 275 324 411 521 485 509 574	20.3/16 22.3/4 22.3/4 27.1/2 30.5/16 10.13/16 12.3/4 16.3/16 20.1/2 19.1/8 20.1/16 22.5/8	32 32 32 32 32 32 32 39.5 39.5 39.5 39.5 43 43	1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/6 1 1/16 1 1 1/16 1 1 1/16	78 78 78 78 78 78 78 78 75 69 75 75 76 76	3 1/16 3 1/16 3 1/16 3 1/16 3 1/16 2 11/16 2 11/16 2 15/16 2 15/16 3 3 3 3	442 377 392 507 627 699 201 206 255 260 197 202 322 327 416 421 437 442 372 377 387 392	17 3/8 a 14 13/16 15 7/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4 73/4 715/16 127/8 163/8 169/16 173/8 145/8 1413/16 151/4 157/8	442 507 507 507 627 699 201 206 255 260 342 347 452 457 441 437 442 502 507 502	17 3/8 19 15/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4 137/16 1311/16 1713/16 18 163/8 169/16 173/8 193/4 1915/16	42.5 42.5 42.5 42.5 42.5 42.5 40.5 40.5 40.5 40.5 40.5 40.5 40.5 40	1 11/16 1 11/16	to 1 s 2	Radius 1 Keeping of setting of	Compass a Corner 2 Rx Ss to radius Compass constant
39944020 39950020 39950020 39950020 39970020 39970020* Ocean H 39600050* 39610050 39610050 39620070 39630050 39640050 39640050 39640070 39644050 39644050 39650050 39650050 39650050	44 50 54 60 70 77 Hatch 0 10 20 30 40 44 50	15 15 15 15 15 15 15 15 15 15 Flat 25 25 Flat	9/16 9/16 9/16 9/16 9/16 9/16 9/16 9/16 9/16 Base 1 Base Bas	513 448 463 578 698 770 275 324 266 391 485 509 444 459	20 3/16 17 5/8 18 1/4 22 3/4 27 1/2 30 5/16 1013/16 123/4 101/2 153/8 191/8 201/16	513 578 578 578 578 698 770 275 324 411 521 485 509 574	20.3/16 22.3/4 22.3/4 27.1/2 30.5/16 10.13/16 12.3/4 16.3/16 20.1/2 19.1/8 20.1/16 22.5/8	32 32 32 32 32 32 32 39.5 39.5 39.5 39.5 43 43	1 1/4 1 1/6 1 1 1/16 1 1 1/16 1 1 1/16	78 78 78 78 78 78 78 79 75 69 75 75 76	3 1/16 3 1/16 3 1/16 3 1/16 3 1/16 2 11/16 2 11/16 2 15/16 2 15/16 3 3	442 377 392 507 627 699 201 206 255 260 197 202 322 327 416 421 437 442 372 377 387 392 502	17 3/8 a 14 13/16 15 7/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4 73/4 715/16 127/8 163/8 169/16 173/8 145/8 1413/16 151/4 157/8 193/4	442 507 507 507 627 699 201 206 255 260 342 347 452 457 416 421 437 442 502 507 502 507	17 3/8 19 15/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4 137/16 1311/16 163/8 163/8 163/8 173/8 193/4 1915/16 193/4	42.5 42.5 42.5 42.5 42.5 42.5 40.5 40.5 42.5 40.6 42.5 40.6 42.5 40.6 42.5 40.6 42.5 40.6 42.5 40.6 42.5 40.6 42.5 40.6 42.5 40.6 42.5 40.6 40.6 40.6 40.6 40.6 40.6 40.6 40.6	1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 11/16 1 19/16 1 11/16 1 11/16	to s	Radius 1 Keeping of setting of	Compass a Corner 2 Rx Ss to radius compass
39944020 39950020 39950020 39950020 39960020 39970020 39977020* Ocean F 39600050* 39610050 39610070 39620050 39630050 39640050 39640050 39644050 39650050 39650070 39654050 39654050 39660050	44 50 54 60 70 77 latch 0 10 20 30 40 44 50	15 15 15 15 15 15 15 15 15 15 Flat 25 25 Flat	9/16 9/16 9/16 9/16 9/16 9/16 9/16 9/16 9/16 Base 1 Base Bas	513 448 463 578 698 770 275 324 266 391 485 509 444 459	20 3/16 17 5/8 18 1/4 22 3/4 27 1/2 30 5/16 1013/16 123/4 101/2 153/8 191/8 201/16 171/2	513 578 578 578 578 698 770 275 324 411 521 485 509 574 574	20.3/16 22.3/4 22.3/4 27.1/2 30.5/16 10.13/16 12.3/4 16.3/16 20.1/2 19.1/8 20.1/16 22.5/8	32 32 32 32 32 32 32 39.5 39.5 39.5 39.5 43 43 43	1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/4 1 1/6 1 1/16 1 1 1/16 1 1 1/16	78 78 78 78 78 78 78 78 75 69 75 75 76 76	3 1/16 3 1/16 3 1/16 3 1/16 3 1/16 2 11/16 2 11/16 2 15/16 2 15/16 3 3 3 3	442 377 392 507 627 699 201 206 255 260 197 202 322 327 416 421 437 442 372 377 387 392 502 507	17 3/8 a 14 13/16 15 7/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4 73/4 715/16 127/8 163/8 169/16 173/8 145/8 1413/16 151/4 157/8	442 507 507 507 627 699 201 206 255 260 342 457 416 421 437 442 502 507 502 507 502 507	17 3/8 19 15/16 19 15/16 24 11/16 27 1/2 715/16 81/8 101/16 101/4 137/16 1311/16 1713/16 18 163/8 169/16 173/8 193/4 1915/16	42.5 42.5 42.5 42.5 42.5 42.5 40.5 40.5 42.5 40.6 42.5 40.6 42.5 40.6 42.5 40.6 42.5 40.6 42.5 40.6 42.5 40.6 42.5 40.6 42.5 40.6 42.5 40.6 40.6 40.6 40.6 40.6 40.6 40.6 40.6	1 11/16 1 11/16	to 1 s 2	Radius 1 Keeping of setting of	Compass a Corner 2 Rx Ss to radius Compass constant

694 27⁵/₁₆ 694 27⁵/₁₆ 40 1⁹/₁₆

699 271/2 699 271/2 42.5 111/16

39677050

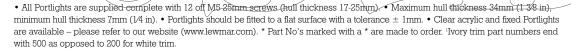
39677070

Flat Base

767 30³/₁₆ 767 30³/₁₆ 43 1¹¹/₁₆ 76 3

			Overall Size							Cut-Out Size Dimensions change if Trimkits are used						
Part No	Size	Version	Wi	dth		y ngth	Hei	ight	Ra		Cut- Wi	-Out	Cut	t-Out ngth		Out adii
			mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
Standard	Port	light														
393020200¹	0	Opening	176	615/16	323	1211/16	4	5/32	62	27/16	156	61/8	303	1115/16	52	21/16
393120200	1	Opening	191	71/2	367	147/16	4	5/32	62	27/16	171	63/4	347	135/8	52	21/16
393180200	1RE	Opening	191	71/2	367	147/16	4	5/32	95	33/4	171	63/4	347	135/8	85.5	33/8
393220200	2	Opening	176	615/16	425	163/4	4	5/32	62	27/16	156	61/8	405	1515/16	52	21/16
393320200	3	Opening	191	71/2	449	1711/16	4	5/32	62	27/16	171	63/4	429	16 ⁷ /8	52	21/16
393420200	4	Opening	191	71/2	646	257/16	4	5/32	62	27/16	171	63/4	627	2411/16	52	21/16
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	1711/16	4	5/32	62	27/16	244	95/8	429	167/8	52	21/16
393780200*	7RE	Opening	191	71/2	425	163/4	4	5/32	95.5	33/4	171	63/4	405	1513/16	85.5	33/8
Atlantic F	ortli	ght														
39110090	10	Opening	174	67/8	304	12	6	1/4	71	213/16	154	61/16		113/16	61	23/8
39130090	30	Opening	200	77/8	400	153/4	6	1/4	71	213/16	180	71/16	380	1415/16	61	23/8
39132090	32	Opening	200	77/8	400	153/4	6	1/4	100	315/16	180	71/16	380		90	39/16
39140090*	40	Opening	200	77/8	480	187/8	6	1/4	71	213/16	- 180	71/16	460	181/8	61	23/8-

Stainless Dimensions



1/4

1/16

n/a n/a

213/16

180 71/16

765 301/8

712

580 22¹³/₁₆ 61

23/8

600 235/8

452 1713/16

200

Opening

Opening

Roller Shade/Screen for Hatches

367770252

7/7/8

196 711/16

39160090*

393820862

70

Stainless Portlight



Oa.o, Oo			Α	В
Trim & Roller Screen Together	Trim Only (for roller screen)	Roller Screen Only	Length mm in	Width mm in
367710252	368710252	367710972	398 1511/16	345 139/16
367720252	368720252	367720972	340 133/8	432 17
367730252	368730252	367730972	465 185/16	542 215/16
367740252	368740252	367740972	559 22	506 1915/16
367744252	368744252	367744972	580 2213/16	528 2013/16
367750252	368750252	367750972	515 201/4	592 235/16
367754252	368754252	367754972	531 207/8	592 235/16
367760252	368760252	367760972	645 253/8	592 235/16
	Trim & Roller Screen Together 367710252 367720252 367730252 367740252 367744252 367750252 367754252	Screen Together (for roller screen) 367710252 368710252 367720252 368720252 367730252 368730252 367740252 368740252 367744252 368744252 367750252 368750252 367754252 368754252	Trim & Roller Screen Together Trim Only (for roller screen) Roller Screen Only 367710252 368710252 367710972 367720252 368720252 367720972 367730252 368730252 367730972 367740252 368740252 367740972 367750252 368744252 367744972 367750252 368750252 367750972 367754252 368754252 367754972	Trim & Roller Screen Together Trim Only (for roller screen) Roller Screen Only Length mm in 367710252 368710252 367710972 398 15¹¹¹/₁6 367720252 368720252 367720972 340 13³/8 367730252 368730252 367730972 465 18⁵/₁6 367740252 368740252 367740972 559 22 367744252 368744252 367744972 580 22¹³/₁6 367750252 368750252 367750972 515 20¹/₄ 367754252 368754252 367754972 531 20⁻/₅

367770972

368770252



Cross Section of Roller Shade/Screen



Hatch & Portlight Installation Check List

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 1



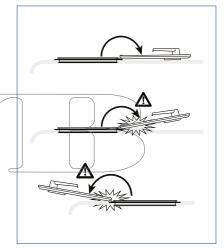


Figure 2

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 (+/- Imm).

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



Filgure 4



Figure 5



Figure 6



Figure 7



Figure 8



Figure 9

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. Faster 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



Figure 16

Portlight Fitting Instructions

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 3



Figure 4



Figure 5



Figure 6

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.





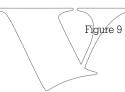








Figure 7

Figure 8



Figure 11



Hatch Vent Fitting Instructions

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



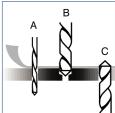


Figure 2

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 3



Figure 4

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 6

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.



Figure 5



Figure 8

Assembly & Fastening

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





Figure 10 Fit to the hatch.

Figure 9



Fasten from the inside.

Finished vent installation.

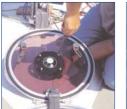




Figure 13

Figure 12

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 11

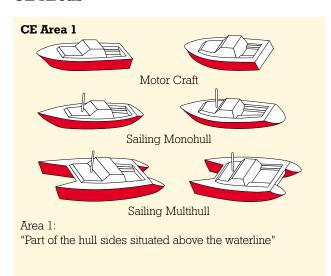


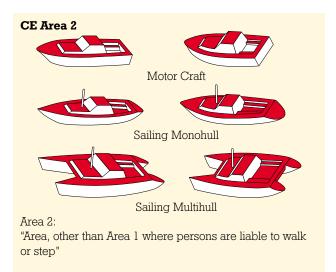
Figure 12

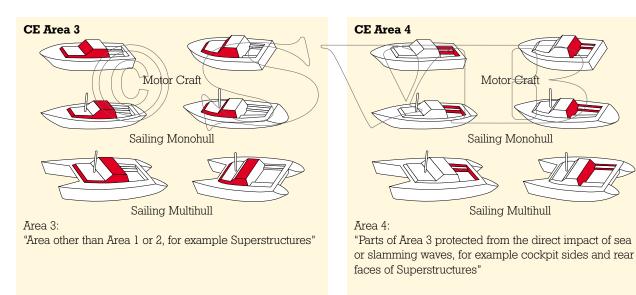


Regulations

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.

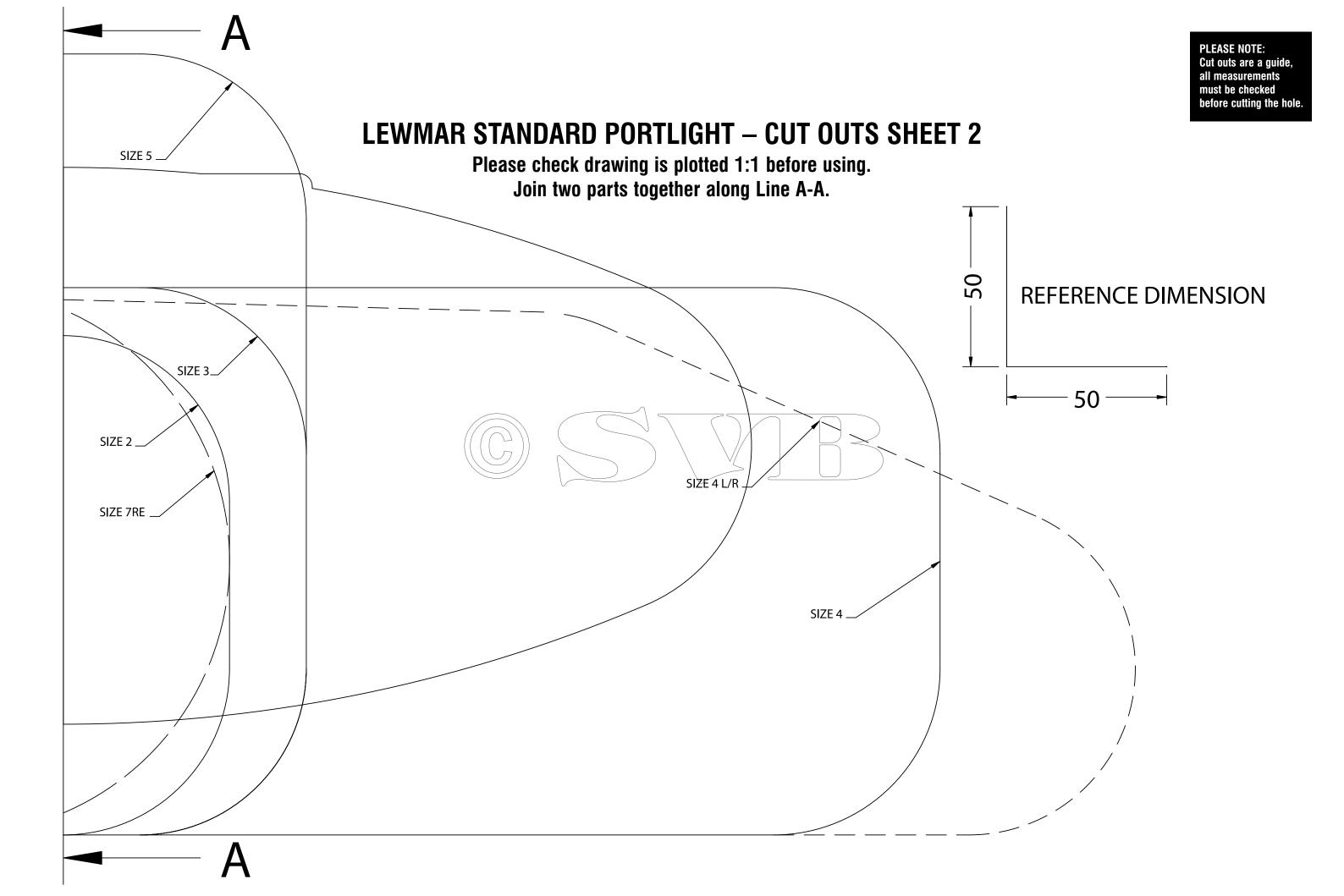
Hatches

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

Description	Sizes	Area
Standard Portlights Fixed	0, 1, 1RE & 2	1
Standard Portlights Fixed	3, 4, 4L, 4R & 7RE	2
Standard Portlights Opening	All	2
Atlantic Portlights Fixed	All	1
Atlantic Portlights Opening	10, 30, 32	1
Atlantic Portlights Opening	40, 60	2
Stainless Steel Portlight	8	2









LEWMAR®

Lewmar Ltd

e-mail info@lewmar.com website www.lewmar.com

