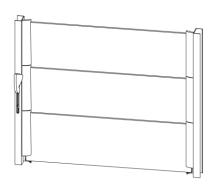




Height Tables

152 mm Blade Louvre Height

132 IIIIII Blade Louvie Height			
No. of Blades	Height (mm) No Weatherstrip	Height (mm) with Weatherstrip	
2	304.8	324.8	
3	444.5	464.5	
4	584.2	604.2	
5	723.9	743.9	
6	863.6		
7	1003.3	1023.3	
8	1143.0	1163.0	
9	1282.7	1302.7	
10	1422.4	1442.4	
11	1562.1	1582.1	
12	1701.8	1721.8	
13	1841.5	1861.5	
14	1981.2	2001.2	
15	2120.9	2140.9	
16	2260.6	2280.6	
17	2400.3	2420.3	
18	2540.0	2560.0	
19	2679.7	2699.7	
20	2819.4	2839.4	
21	2959.1	2979.1	

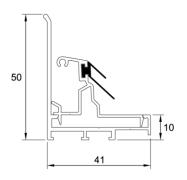


Standard louvre height (ht) for 152 mm blades can be computed as follows:

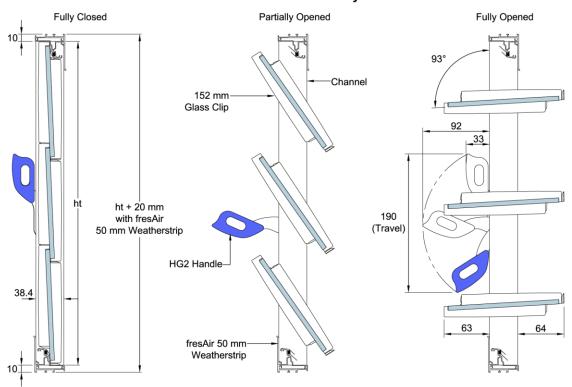
ht=(nb x 139.7) + 25.4

where: ht - height of frame nb - number of blades

fresAir 50 mm Weatherstrip



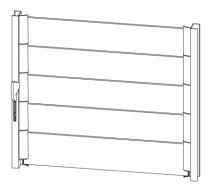
152 mm Louvre Gallery



Height Tables

102 mm Blade Louvre Height

102 111111	102 IIIII Diade Louvie Height		
No. of Blades	Height (mm) No Weatherstrip	Height (mm) with Weatherstrip	
3	292.1	312.1	
4	381.0	401.0	
5	469.9	489.9	
6	558.8	578.8	
7	647.7	667.7	
8	736.6	756.6	
9	825.5	845.5	
10	914.4	934.4	
11	1003.3	1023.3	
12	1092.2	1112.2	
13	1181.1	1201.1	
14	1270.0	1290.0	
15	1358.9	1378.9	
16	1447.8	1467.8	
17	1536.7	1556.7	
18	1625.6	1645.6	
19	1714.5	1734.5	
20	1803.4	1823.4	
21	1892.3	1912.3	

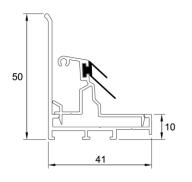


Standard louvre height (ht) for 102 mm blades can be computed as follows:

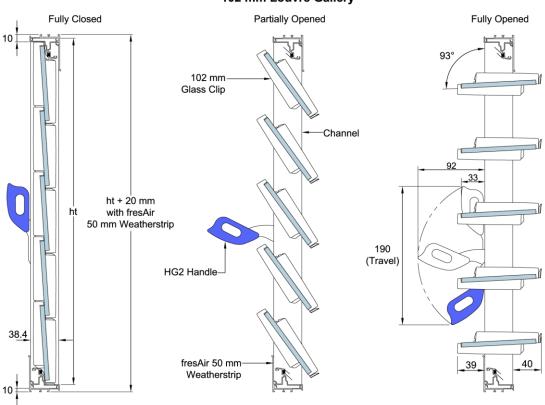
ht=(nb x 88.9) + 25.4

where: ht - height of frame nb - number of blades

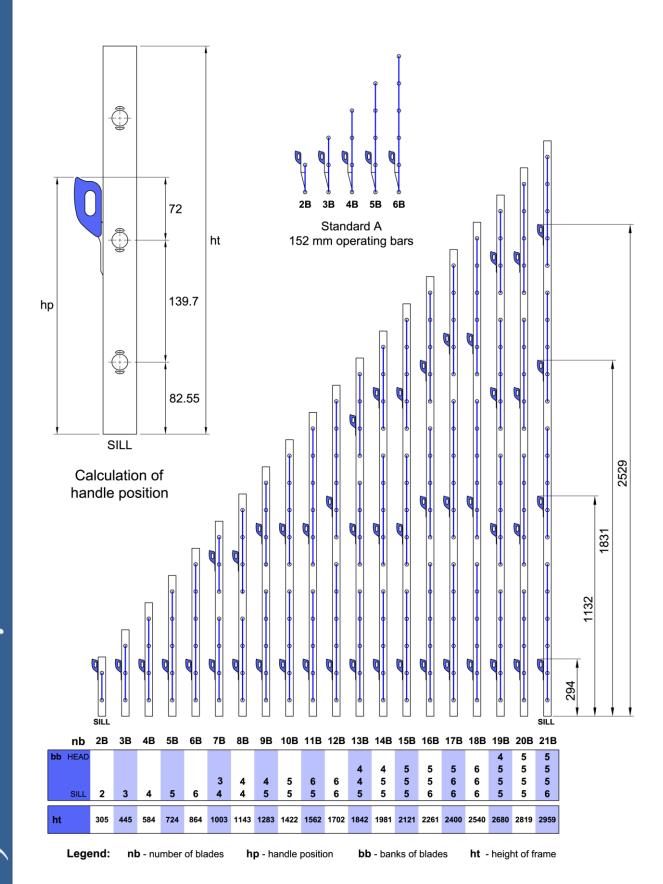
fresAir 50 mm Weatherstrip



102 mm Louvre Gallery

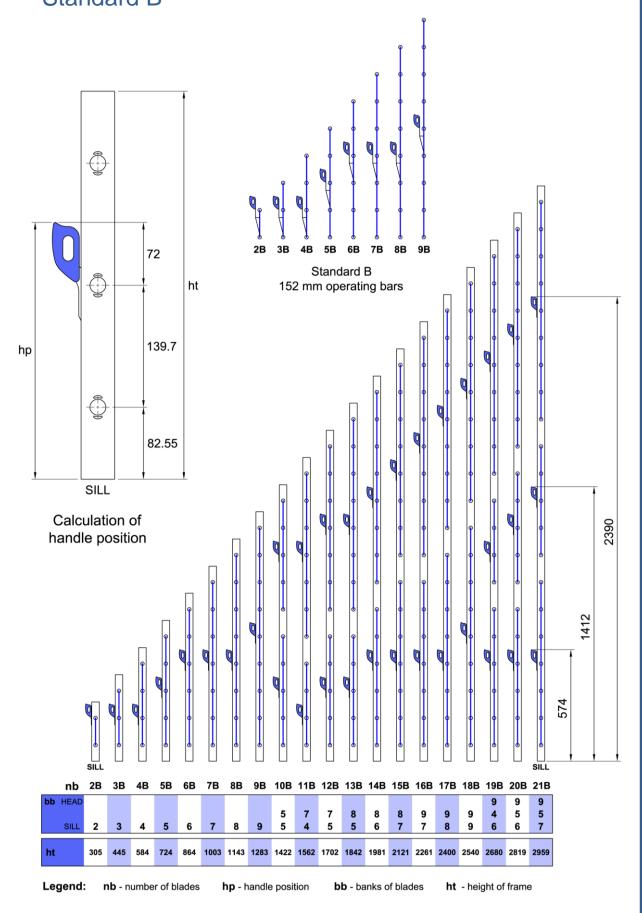


152 mm Louvre Handle Positions And ControlsStandard A

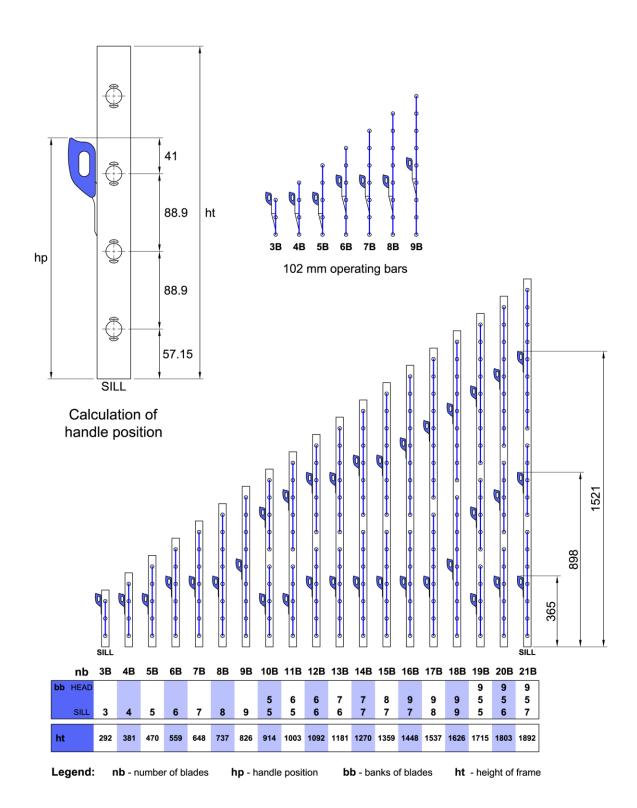


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152 mm Louvre Handle Positions And ControlsStandard B



102 mm Louvre Handle Positions And Controls



Glass Blade Calculations

Blade Width (W)

152 mm Clips : 150 mm - 152 mm 102 mm Clips : 100 mm - 102 mm

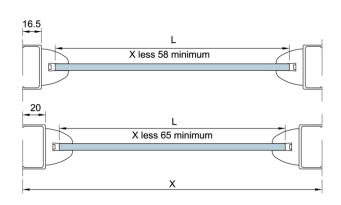
Glass Blade W

Blade Length (L)

C1 Channel (16.5 mm height) L = X less 58 mm

C2 Channel (20 mm height) L = X less 65 mm

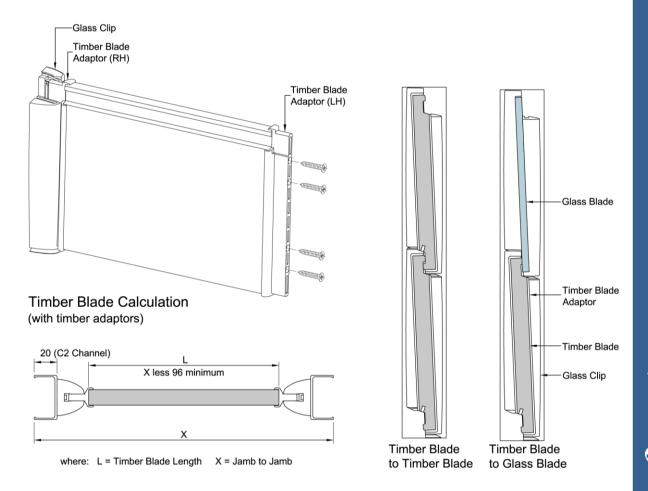
where: L = Glass Blade Length X = Jamb to Jamb



Caution: Allowable Tolerance: ±0.7 mm, oversized blades will bow the clips and result in stiff operations.

Timber Blade Adaptors

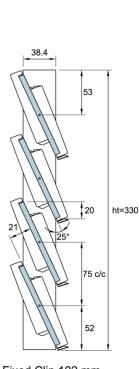
Available for 102 mm and 152 mm timber blades

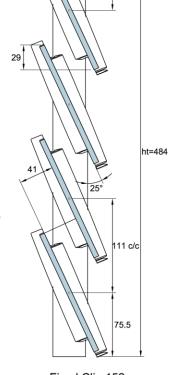


Fixed Clip Louvres

Height Table for Fixed Clips

_		
No. of Blades	152 mm	102mm
2	262.1	-
3	373.1	255
4	484.1	330
5	595.1	405
6	706.1	480
7	817.1	555
8	928.1	630
9	1039.1	705
10	1150.1	780
11	1261.1	855
12	1372.1	930
13	1483.1	1005
14	1594.1	1080
15	1705.1	1155
16	1816.1	1230
17	1927.1	1305
18	2038.1	1380
19	2149.1	1455
20	2260.1	1530
21	2371.1	1605





75.5

Fixed Clip 102 mm for 6 mm glass

Fixed Clip 152 mm for 6 mm glass

Torsion Bar and Adaptors

For large span louvre windows



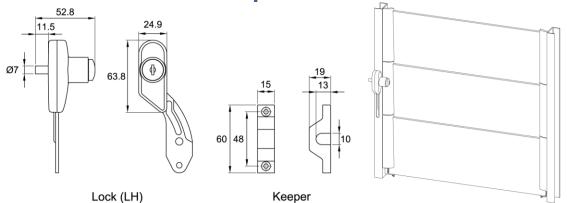
Bar Profile



Adaptors

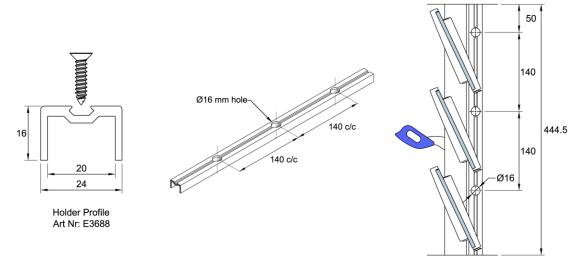


Handle Locks and Keepers



Security Bar Holder

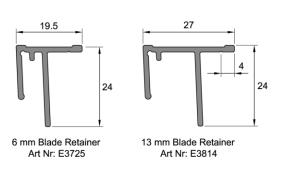
In extruded aluminium with Ø16 mm holes at 140 mm centre to centre

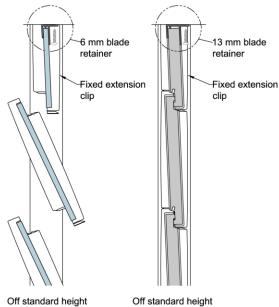


Blade Retainers in Extruded Aluminium Profile

Applications

- · Off standard height louvres
- · Strengthen narrow width blades in extension clips





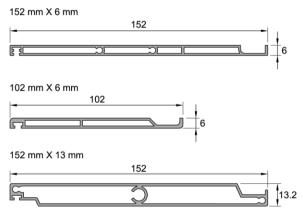
Off standard height louvres for glass blade

Timber Blade

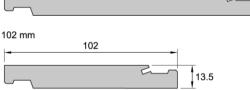
Off standard height louvres for timber blade

Blade Options

Extruded Aluminium Blade



152 mm



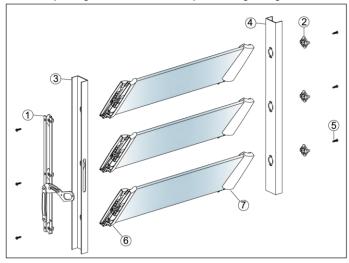
13.5

Configuration and Construction Options

A louvre window comprising of a left hand and right hand channels with corresponding mounting blade holders or clip, activate to rotation by a handle attached to an operating bar mechanism and bearings on either side channels.

(A) STANDARD

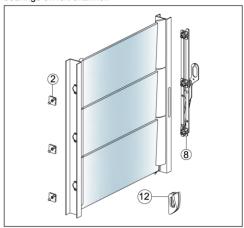
Left hand operating bar on left channel and plain bearings on right channel.



- 1 Left Hand Operating Bar
- (2) Plain Bearing
- (3) Left Channel
- 4 Right Channel
- (5) Hi-Low Screw
- (6) Left Clip
- 7 Right Clip
- 8 Right Hand Operating Bar
- (9) Left Linkage Bar
- (10) Right Linkage Bar
- 11) Left Handle Grip
- 12) Right Handle Grip

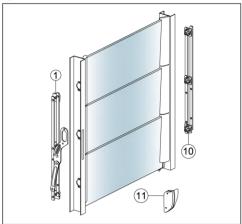
B RIGHT HAND CONTROL

Right hand operating bar on right channel and plain bearings on left channel.



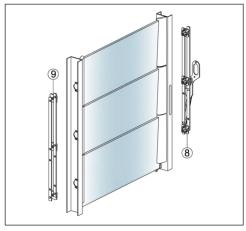
© LEFT HAND CONTROL WITH LINKAGE BAR

Left hand operating bar on left channel and linkage bar on right channel.



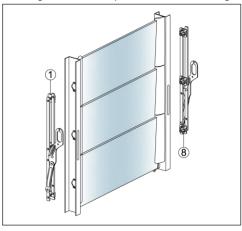
D RIGHT HAND CONTROL WITH LINKAGE BAR

Right hand operating bar on right channel and linkage bar on left channel.



(E) LEFT AND RIGHT HAND CONTROL

Left hand operating bar on left channel and right hand operating bar on right channel and option to receive connecting torsion bar.



* All illustrations are viewed from INSIDE

fresAir Crystal Louvres Specifications

- Louvres windows shall be fresAir Crystal as supplied by PMM International Pte Ltd .
- Louvre channel frame shall be in extruded architectural grade 6063 T5 with drainage apertures.
- Blade holding clips are moulded from high impact polypropylene with low melt index, UV stabilized and enhanced with light stabilizer.
- Preferably the clips will have sweep seals to resist water ingress.
- Clips when closed shall be aligned without protruded ledges.
- Drainage system shall incorporate localized drainage at every clips and a common drainage along the back of channel frame.
- Pivoting bearings shall be cold forged aluminium; forged to form extended studs for riveting to aluminium pantograph operating bars and with a sunken cavity tight fitted to the clip.
- Handles shall be high tensile strength aluminium, crimped for added strength and attached to the toggle bars and operating bars with stainless steel rivets using precision pressed radial spokes technique which bite into the operating bar, ensuring the rivets remain firmly fixed while the other connecting members rotates.
- All operating parts assembly to be in fully precision stamp-riveted construction on metal parts.
- Louvre window system shall comply with AS2047 for water and air infiltration and SS 215 cyclic test for 20,000 lock and unlock cycles.
- Height of louvres and handles positions shall be as per fresAir standard tables unless otherwise specified.
- When required, push lock shall be fitted to the handle with key removable function when in locked position.
- Glass blades shall be 102 mm wide x 6mm thick and 152 mm x 6 mm thick suited for 102mm glass clip and 152 mm glass clip respectively.
- Timber blades shall be 102 mm wide x13 mm thick and 152 mm wide x 13mm thick suited for 102 mm timber blade adaptor and 152 mm timber blade adaptor respectively.
- Length of blades must conform to AS1288, industry practice or manufacturer's recommendation.
- All profile framing surrounds systems such as mullions, transoms, beadings, weather bars, gaskets must facilitate the louvre system to fit-in so as to achieve the required performance of the window system.

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Due to the company's policy of continuous product development and enhancement, the specifications and details contained in this brochure are subject to alteration without prior notice.

The dimensions, details, specifications and statements made herein or by our representatives arising out of any enquiries are given for information purposes only. They are not intended to have any legal effect and the company will not be bound thereby. The company will only accept obligations which are expressly negotiated for, and agreed and incorporated into written agreements made specifically with its respective customers.

fresAir Crystal Louvre Window

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