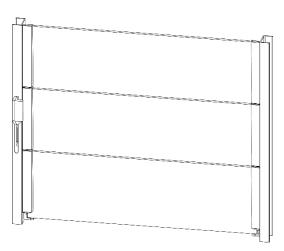
Toren **Louvre Windows** · Open joint concept in weathering • Straight-edge design and clean define looks

fresAir TM
Louvre Window Systems

Height Tables

152 mm Blade Louvre Height

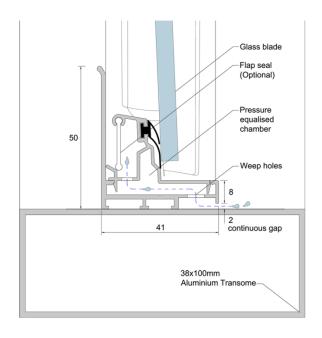
No. of Blades	Height (mm) No Weatherstrip	Height (mm) with Weatherstrip
2	304.8	324.8
3	444.5	464.5
4	584.2	604.2
5	723.9	743.9
6	863.6	883.6
7	1003.3	1023.3
8	1143.0	1163.0
9	1282.7	1302.7
10	1422.4	1442.4
11	1562.1	1582.1
12	1701.8	1721.8
13	1841.5	1861.5
14	1981.2	2001.2
15	2120.9	2140.9
16	2260.6	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 152mm bladed can be computed as follows:

 $ht = (nb \times 139.7) + 25.4$

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



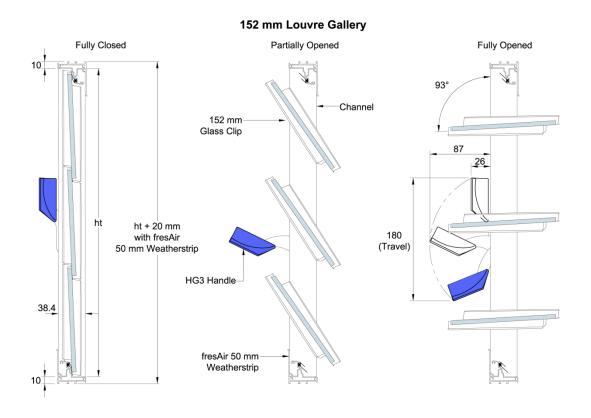
fresAir™ 50mm Weatherstrip

Pressure equalised chamber resists water penetration and at the same time facilitates easy drainage

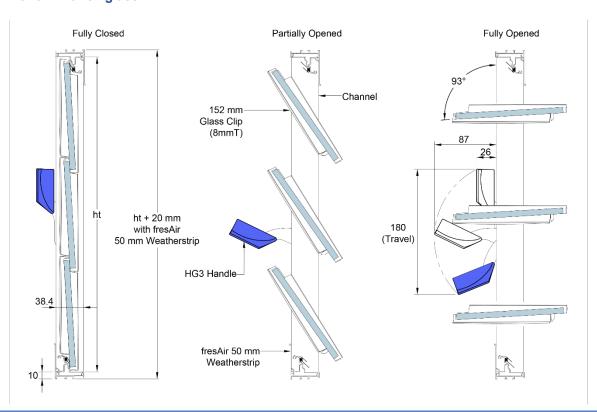


152mm Louvre Gallery

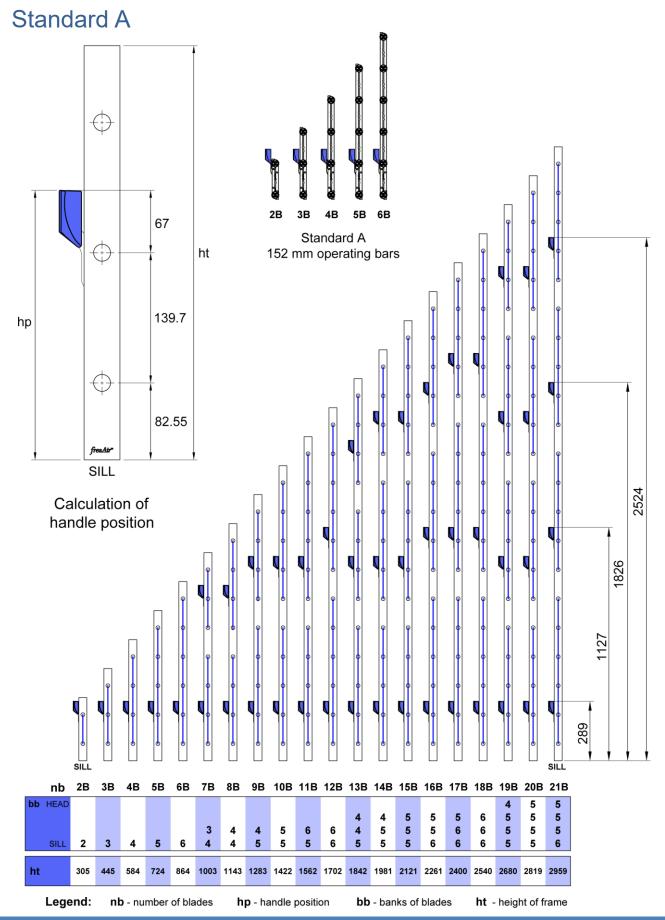
for 6mm thick glass



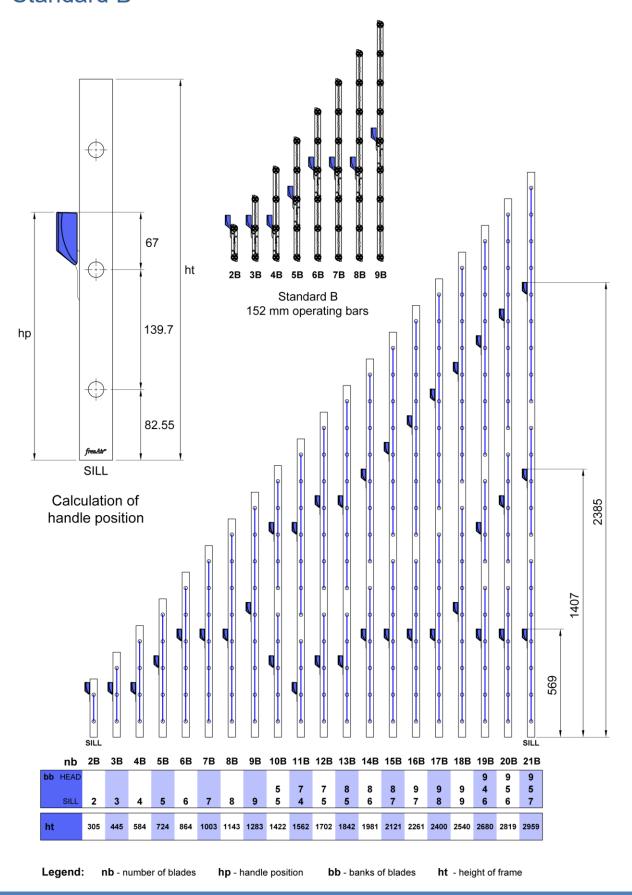
for 8mm thick glass



152 mm Louvre Handle Positions And Controls



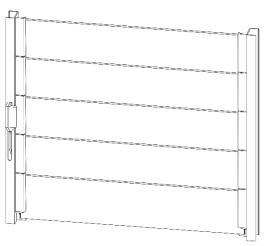
152 mm Louvre Handle Positions And ControlsStandard B



Height Tables

102 mm Blade Louvre 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 102mm bladed can be computed as follows:

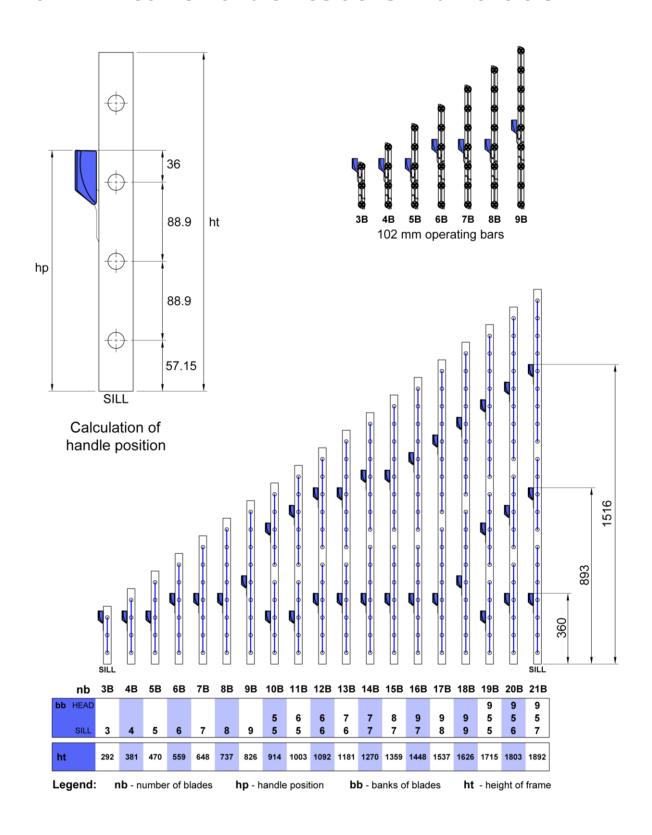
 $ht = (nb \times 88.9) + 25.4$

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

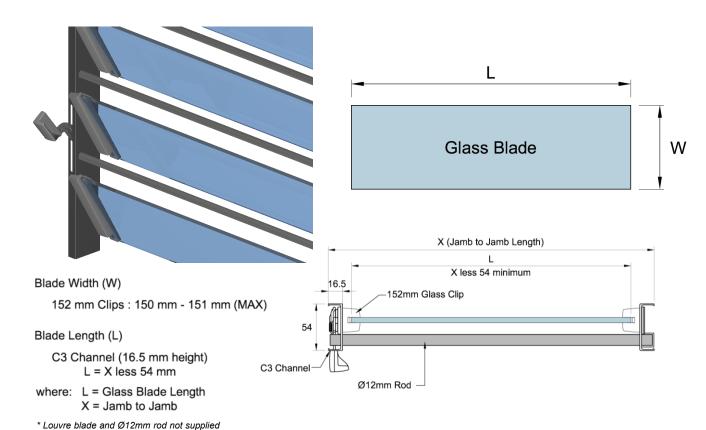
102 mm Louvre Gallery Fully Closed Partially Opened Fully Opened 10 102 mm Glass Clip Channel ht + 20 mm with fresAir 50 mm Weatherstrip 180 (Travel) HG3 Handle 38.4 fresAir 50 mm Weatherstrip

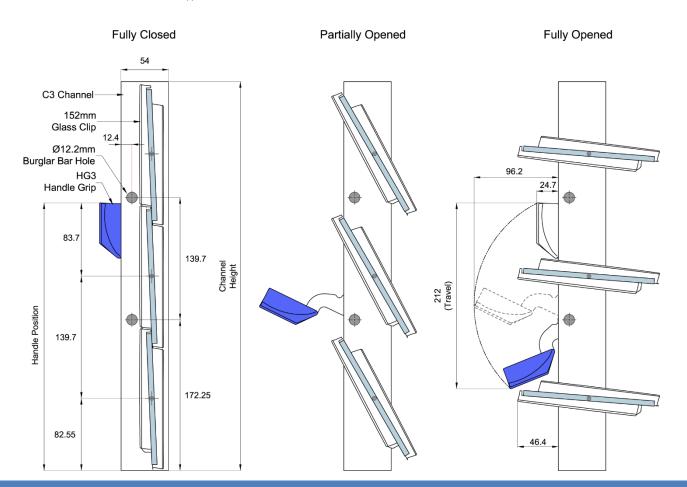
fresAir™ Toren

102 mm Louvre Handle Positions And Controls



Burglar Bar System for Louvre Windows



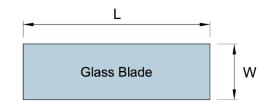


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Glass Blade Calculations

Blade Width (W)

152 mm Clips : 150 mm - 151 mm (MAX) 102 mm Clips : 101 mm - 102 mm (MAX)



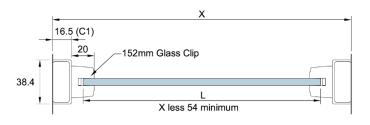
Blade Length (L)

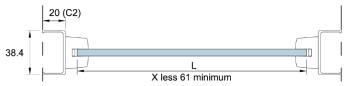
C1 and C3 Channel (16.5 mm height) L = X less 54 mm

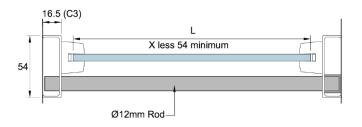
C2 Channel (20 mm height) L = X less 61 mm

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.

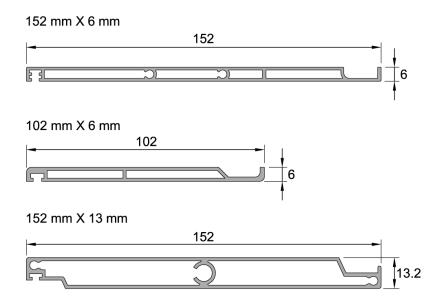






Blade Options

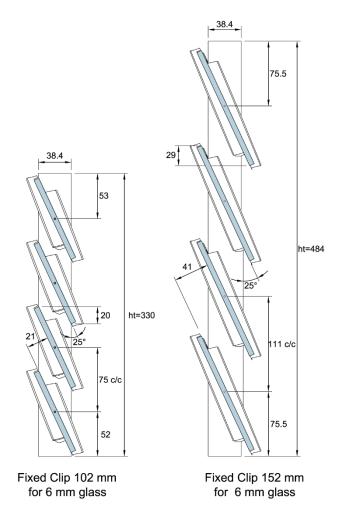
Extruded Aluminium Blade



Fixed Clip Louvres

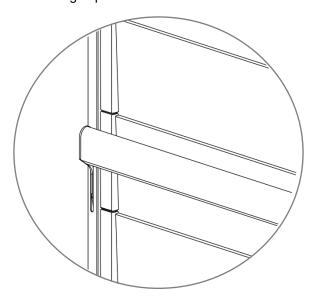
Height Table for Fixed Clips

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

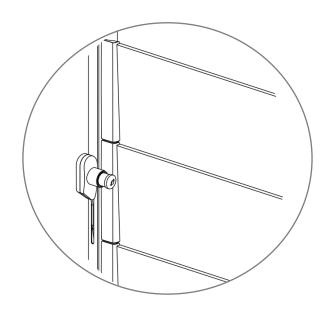


Torsion Bar and Adaptors

For large span louvre windows



Handle Locks and Keepers

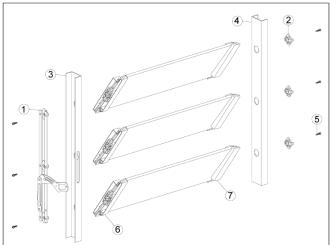


Configuration and Construction Options

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

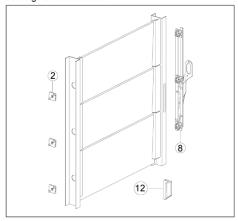
Left hand operating bar on left channel and plain bearings on right channel.



- (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

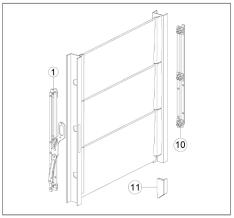
(B) RIGHT HAND CONTROL

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



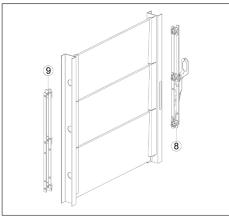
© LEFT HAND CONTROL WITH LINKAGE BAR

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



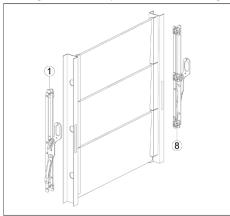
(D) RIGHT HAND CONTROL WITH LINKAGE BAR

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

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