

**AS2047-2014 Product Performance Warranty: Altair® Louvres in Non-Cyclonic Regions: Housing**

	N1/N2				N3			
	General location		Corner Windows		General location		Corner Windows	
	400 Pa SLS 900 Pa ULS 150 Pa Water Pass		600 Pa SLS 1300 Pa ULS 150 Pa Water Pass		600 Pa SLS 1400 Pa ULS 150 Pa Water Pass		800 Pa SLS 2000 Pa ULS 150 Pa Water Pass	
	Max Blade Length	Max Height	Max Blade Length	Max Height	Max Blade Length	Max Height	Max Blade Length	Max Height
<b>152mm Altair Louvre with or without the Stronghold System</b>								
152mm annealed glass <sup>1</sup>	900	21 blade	900	21 blade	900	21 blade	805	21 blade
152mm toughened glass <sup>1</sup>	900	21 blade	900	21 blade	900	21 blade	900	21 blade
152mm aluminium blade	900	21 blade	900	21 blade	900	21 blade	900	21 blade
152mm timber blade	900	17 blade	900	17 blade	900	17 blade	900	17 blade
Easyscreen & Innoscreen Mullion <sup>2</sup>	-	21 blade	-	21 blade	-	21 blade	-	20 blade
SL2 Heavy Duty Mullion <sup>2</sup>	-	21 blade	-	21 blade	-	21 blade	-	19 blade
SL2 Medium Duty Mullion <sup>2</sup>	-	13 blade	-	11 blade	-	10 blade	-	9 blade
<b>152mm Altair Louvre with the Stronghold System</b>								
152mm toughened glass <sup>1</sup>	1127 <sup>3</sup>	15 blade <sup>3</sup>	1127 <sup>3</sup>	15 blade <sup>3</sup>	1127 <sup>3</sup>	15 blade <sup>3</sup>	1127 <sup>3</sup>	15 blade <sup>3</sup>
Easyscreen & Innoscreen Mullion <sup>2</sup>	-	15 blade	-	15 blade	-	15 blade	-	15 blade
<b>102mm Altair Louvre with or without the Stronghold System</b>								
102mm annealed glass <sup>1</sup>	750	33 blade	750	33 blade	750	33 blade	750	33 blade
102mm toughened glass <sup>1</sup>	750	33 blade	750	33 blade	750	33 blade	750	33 blade
102mm aluminium blade	750	33 blade	750	33 blade	750	33 blade	750	33 blade
102mm timber blade	750	27 blade	750	27 blade	750	27 blade	750	27 blade
Easyscreen & Innoscreen Mullion <sup>2</sup>	-	33 blade	-	33 blade	-	33 blade	-	33 blade
SL2 Heavy Duty Mullion <sup>2</sup>	-	33 blade	-	33 blade	-	33 blade	-	32 blade
SL2 Medium Duty Mullion <sup>2</sup>	-	22 blade	-	19 blade	-	17 blade	-	15 blade

**Notes:**
**1. Glass blade size and flatness**

Glass blades must be 6.0mm ±0.1mm thick and must be straight and flat within 0.3mm/m. Glass blades must be 152.00mm ±0.6mm high or 102.00mm ±0.6mm high.

**2. Mullions**

Mullion heights are based on a 1:250 deflection ratio and the maximum warranted louvre bay widths for each N or C rating and window location.

**3. Using the Stronghold System for 152mm blade lengths greater than 900mm**

The Stronghold System is an optional feature of the Altair Louvre Window which mechanically fixes the blades into the clips. These mechanical fixings enable bay widths of up to 1200mm to be achieved in some regions. In other regions, the ULS and Water Pass requirements of AS2047-1999 prevent these wider bay widths from being warranted. Easyscreen, Innoscreen or Altair Component System High Profile Sills and standard heights are required.

**4. Water Pass Ratings greater than 300Pa**

A High Profile Sill is required to achieve Water Pass ratings greater than 300Pa.

- High Profile Sills are available in the Breezway Easyscreen and Innoscreen Window Systems and in the Altair Component System.
- High Profile Sills are not available in the Breezway SL2 Window System.
- Altair 102mm Louvres are not suitable for use with High Profile Sills as they are prevented from opening beyond 28°.

Water Pass ratings greater than 300Pa are only achievable using Altair Gallery sets without screw holes.

- Altair Gallery sets snap into Breezway Window Systems, so do not require screw holes.
- Altair Backing Strips allow Altair Component Systems to be installed without screw holes.

N4					N5			
General location		Corner Windows			General location		Corner Windows	
800 Pa SLS 2000 Pa ULS 200 Pa Water Pass		1200 Pa SLS 3000 Pa ULS 200 Pa Water Pass			1200 Pa SLS 3000 Pa ULS 300 Pa Water Pass		1800 Pa SLS 4500 Pa ULS 300 Pa Water Pass	
Max Blade Length	Max Height	Max Blade Length	Max Height	Max Blade Length	Max Height	Max Blade Length	Max Height	
<b>152mm Altair Louvre with or without the Stronghold System</b>								
152mm annealed glass <sup>1</sup>	805	21 blade	658	21 blade	658 <sup>5</sup>	17 blade <sup>5</sup>	537 <sup>5</sup>	20 blade <sup>5</sup>
152mm toughened glass <sup>1</sup>	900	21 blade	900	21 blade	900 <sup>5</sup>	14 blade <sup>5</sup>	849 <sup>5</sup>	15 blade <sup>5</sup>
152mm aluminium blade	900	21 blade	900	21 blade	707	17 blade	707	17 blade
152mm timber blade	900	17 blade	900	17 blade	NA	NA	NA	NA
Easyscreen & Innoscreen Mullion <sup>2</sup>	-	20 blade	-	17 blade	-	17 blade	-	16 blade
SL2 Heavy Duty Mullion <sup>2</sup>	-	19 blade	-	17 blade	-	14 blade	-	15 blade
SL2 Medium Duty Mullion <sup>2</sup>	-	9 blade	-	8 blade	-	8 blade	-	7 blade
<b>152mm Altair Louvre with the Stronghold System</b>								
152mm toughened glass <sup>1</sup>	1127 <sup>3</sup>	11 blade <sup>3</sup>						
Easyscreen & Innoscreen Mullion <sup>2</sup>	-	11 blade						
<b>102mm Altair Louvre with or without the Stronghold System</b>								
102mm annealed glass <sup>1</sup>	750	33 blade	658	33 blade	658	27 blade	537	31 blade
102mm toughened glass <sup>1</sup>	750	33 blade	750	33 blade	750	25 blade	750	25 blade
102mm aluminium blade	750	33 blade	750	33 blade	707	27 blade	707	27 blade
102mm timber blade	750	27 blade	750	27 blade	NA	NA	NA	NA
Easyscreen & Innoscreen Mullion <sup>2</sup>	-	33 blade	-	29 blade	-	27 blade	-	25 blade
SL2 Heavy Duty Mullion <sup>2</sup>	-	32 blade	-	28 blade	-	25 blade	-	24 blade
SL2 Medium Duty Mullion <sup>2</sup>	-	15 blade	-	13 blade	-	13 blade	-	11 blade

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**5. Narrower, taller bays with toughened glass**

The Product Performance Warranty constraints for annealed glass can also be applied to toughened glass. The Product Performance Warranty constraints for toughened glass cannot be applied to annealed glass.

N6				
General location		Corner Windows		
1600 Pa SLS 4000 Pa ULS 450 Pa Water Pass		2500 Pa SLS 6000 Pa ULS 450 Pa Water Pass <sup>4</sup>		
Max Blade Length	Max Height	Max Blade Length	Max Height	
<b>152mm Altair Louvre with or without the Stronghold System</b>				
152mm annealed glass <sup>1</sup>	569 <sup>4,5</sup>	8 blade <sup>4,5</sup>	465 <sup>4,5</sup>	10 blade <sup>4,5</sup>
152mm toughened glass <sup>1</sup>	800 <sup>4,5</sup>	5 blade <sup>4,5</sup>	735 <sup>4,5</sup>	6 blade <sup>4,5</sup>
152mm aluminium blade	NA	NA	NA	NA
152mm timber blade	NA	NA	NA	NA
Easyscreen & Innoscreen Mullion <sup>2</sup>	-	8 blade	-	10 blade
SL2 Heavy Duty Mullion <sup>2</sup>	-	NA	-	NA
SL2 Medium Duty Mullion <sup>2</sup>	-	NA	-	NA
<b>102mm Altair Louvre with or without the Stronghold System</b>				
102mm annealed glass <sup>1</sup>	NA	NA	NA	NA
102mm toughened glass <sup>1</sup>	NA	NA	NA	NA
102mm aluminium blade	NA	NA	NA	NA
102mm timber blade	NA	NA	NA	NA
Easyscreen & Innoscreen Mullion <sup>2</sup>	-	NA	-	NA
SL2 Heavy Duty Mullion <sup>2</sup>	-	NA	-	NA
SL2 Medium Duty Mullion <sup>2</sup>	-	NA	-	NA

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