

Hawaii Product Performance Warranty

Altair® Louvers are designed to meet and exceed the requirements of AAMA/WDMA/CSA 101/I.S.2/A440-05 and A440-08.

The following table outlines the maximum variations that Breezway® North America will warrant per Design Pressure (DP). Exceeding these constraints will void this Warranty. The limitations have been generated through AAMA (American Architectural Manufacturer's Association) test results. The design constraints below apply to Altair Strip Hardware within the ios® Window System or the Makani™ Window System.

For commercial applications, please consult Breezway with your specific project requirements, so we can correctly apply the relevant performance warranty constraints.

Breezway Window System Performance Warranty Constraints

R25		R35		R45	
25psf DP (100MPH Wind Velocity) 37.5psf STP (123MPH Wind Velocity) 3.75psf Water Resistance		35psf DP (118MPH Wind Velocity) 52.5psf STP (145MPH Wind Velocity) 5.25psf Water Resistance		45psf DP (135MPH Wind Velocity) 67.5psf STP (160MPH Wind Velocity) 6.75psf Water Resistance	
Max Bay Width	Max Height	Max Bay Width	Max Height	Max Bay Width	Max Height

ios Window Systems³

6" Altair tempered glass ¹ blade	37"	17 blade 96-5/16"	31-1/2"	17 blade 96-5/16"	32-1/4" ⁵	12 blade 68-3/4" ^{4,5}
6" Altair float glass ¹ or aluminum blade	37"	17 blade 96-5/16"	31-1/2"	17 blade 96-5/16"	NA	NA
6" Altair wood blade	37-25/32"	17 blade 96-5/16"	32-9/32"	17 blade 96-5/16"	NA	NA
4" Altair tempered glass ¹ blade	37"	26 blade 94-23/32"	31-1/2" ²	26 blade 94-23/32" ²	32-1/4" ⁵	15 blade 55-3/4" ^{4,5}
4" Altair float glass ¹ or aluminum blade	37"	26 blade 94-23/32"	31-1/2" ²	26 blade 94-23/32" ²	NA	NA
4" Altair wood blade	37-25/32"	26 blade 94-23/32"	32-9/32" ²	26 blade 94-23/32" ²	NA	NA

Makani Single Bay Window Systems

6" Altair float glass ¹ , tempered glass ¹ or aluminum blade	36"	20 blade 112-13/16"	31-1/4"	20 blade 112-13/16"
6" Altair wood blade	36-3/4"	20 blade 112-13/16"	32"	20 blade 112-13/16"
4" Altair float glass ¹ , tempered glass ¹ or aluminum blade	36"	31 blade 112-13/32"	31-1/4"	31 blade 112-13/32"
4" Altair wood blade	36-3/4"	31 blade 112-13/32"	32"	31 blade 112-13/32"

Makani Multiple Bay Window Systems

6" Altair float glass ¹ , tempered glass ¹ or aluminum blade	36"	11 blade 66-7/8"	31-1/4"	10 blade 59"
6" Altair wood blade	36-3/4"	11 blade 66-7/8"	32"	10 blade 59"
4" Altair float glass ¹ , tempered glass ¹ or aluminum blade	36"	18 blade 66-7/8"	31-1/4"	15 blade 59"
4" Altair wood blade	36-3/4"	18 blade 66-7/8"	32"	15 blade 59"

Notes:

Altair Louvers with 4" glass blades tested to AAMA/WDMA/CSA 101/I.S.2/A440-08, achieve an air leakage of 0.65cfm at 1.6psf.

DP = Design Pressure **STP** = Structural Test Pressure

These results have been generated through AAMA test results and are certified under the relevant AAMA codes. Test reports are available upon request. For constraints on fixed glass, contact Breezway.

1. Glass must be straight and flat within 1/100" per ft.
2. ios Window System with Inside Screen only.
3. Inside screens should not be installed within one mile of the ocean.
4. Standard Heights only.
5. High upstand sill required.