

COLOR GUARD ANNOUNCES UPSIDE DECK CEILING WIND TESTING RESULTS

Color Guard Inc. announces wind testing results for UpSide by Color Guard Decking Ceiling, a water channeling underdeck system produced in Sheboygan Falls, WI.

Testing was conducted by Intertek Testing of York, PA with results showing a wind test rating of 100 mph based on a PSF pressure test level of 25 psf. Testing was conducted on a 10' x 10' deck structure with joists spaced 16" on center. UpSide product was installed onto the underside of a nominal horizontal 2" x 6" Spruce-Pine-Fir wood test deck with a nominal 2" x 8" Spruce-Pine-Fir frame.

Testing was evaluated in accordance with the ASTM E330/E330M-14 standards.

A copy of the testing can be found on the UpSide by Color Guard website www.upsidebycolorguard.com. Testing results are effective through February 27, 2024.

Wind Velocity Chart

The correlation between dynamic wind speed and static equivalent pressure is formulaic in nature. Dynamic wind speeds at various locations in the United States are determined from wind speed maps in the ASCE/ SEI 7 document. These wind speed maps are based on the historical weather data and provide the maximum expected 3 second wind gust speed. ASCE/ SEI 7 also details a calculation procedure for determining the required design pressure (also known as the wind load or DP) for a specific building opening application. In addition to wind speed, this process applies various factors for application details including the building use, the surrounding terrain, the building height and dimensions, the size and location of openings in the building, etc. It is important to note that this process is application specific – the required design pressure is not merely a conversion of wind speed using the previously indicated equations – it is dependent on many other factors.

<u>CLASS/DESIGN PRESSURE IN PSF (INCHES OF WATER)</u>	<u>CLASS/DESIGN PRESSURE EQUIVALENT WIND VELOCITY IN MPH</u>	<u>STRUCTURAL TEST PRESSURE IN PSF (INCHES OF WATER)</u>	<u>STRUCTURAL TEST PRESSURE EQUIVALENT WIND VELOCITY IN MPH</u>	<u>WATER TEST PRESSURE IN PSF (INCHES OF WATER)</u>	<u>WATER TEST PRESSURE EQUIVALENT WIND VELOCITY IN MPH</u>
15 (2.88)	77.52	22.50 (4.32)	94.94	2.86 (0.55)	24.67
20 (3.84)	89.51	30.00 (5.76)	109.63	3.00 (0.58)	33.85
25 (4.80)	100.08	37.50 (7.20)	122.57	3.75 (0.72)	38.76
30 (5.76)	109.63	45.00 (8.64)	134.27	4.50 (0.86)	42.46
35 (6.72)	118.42	52.50 (10.08)	145.03	5.25 (1.01)	45.86
40 (7.68)	126.59	60.00 (11.52)	155.04	6.00 (1.15)	49.03
45 (8.64)	134.27	67.50 (12.96)	164.45	6.75 (1.30)	52
50 (9.60)	141.53	75.00 (14.40)	173.34	7.50 (1.44)	54.82
55 (10.56)	148.44	82.50 (15.84)	181.8	8.25 (1.58)	57.49
60 (11.52)	155.04	90.00 (17.28)	189.89	9.00 (1.73)	60.05
65 (12.48)	161.37	97.50 (18.72)	197.64	9.75 (1.87)	62.5

ACCREDITATIONS

[American Architectural Manufacturers Association \(AAMA\)](#)

[American Association for Laboratory Accreditation \(ISO 17025-WA, PA, FL\)](#)
[Insulated Glass Certification Council](#)
[Insulated Glass Manufacturers Alliance LA City](#)

[Miami-Dade County \(BCCO\)](#)

[National Fenestration Rating Council](#)

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