

# Summary of Allowable Canadian NAFS-08 Performance Grades

Neither the NAFS-08 <sup>1</sup> standard nor the Canadian Supplement <sup>2</sup> provide a single table listing all the allowable Canadian Performance Grades. In NAFS-08, the Gateway Performance Grades are listed in Table 1, and the Canadian Optional Performance Grades are listed in Table 3. In the Canadian Supplement, all allowable water penetration resistance test pressures are listed in Table B.1, and all allowable performance grades are listed in Table B.2.

The allowable Canadian NAFS Performance Grades are presented in a single table for convenience. It includes both metric and IP values for pressure ratings, and reports Performance Grades based on IP units as generally preferred by the fenestration industry.

## Allowable Canadian NAFS Performance Grades (combining NAFS-08 Tables 1 and 3)

Allowable Performance Grades Arranged by Performance Class				Design Pressure		Allowable Water Penetration Resistance Test Pressure Values			
						R, LC, CW		AW	
R	LC	CW	AW	Pa	(psf)	Pa	(psf)	Pa	(psf)
15	—	—	—	720	(15.00)	140	(2.90)	—	—
20	—	—	—	960	(20.00)	150	(3.00)	—	—
25	25	—	—	1200	(25.00)	180	(3.75)	—	—
30	30	30	—	1440	(30.00)	220	(4.50)	—	—
35	35	35	—	1680	(35.00)	260	(5.25)	—	—
40	40	40	40	1920	(40.00)	290	(6.00)	390	(8.00)
45	45	45	45	2160	(45.00)	330	(6.75)	440	(9.00)
50	50	50	50	2400	(50.00)	360	(7.50)	480	(10.00)
55	55	55	55	2640	(55.00)	400	(8.25)	530	(11.00)
60	60	60	60	2880	(60.00)	440	(9.00)	580	(12.00)
65	65	65	65	3120	(65.00)	470	(9.75)	630	(13.00)
70	70	70	70	3360	(70.00)	510	(10.50)	680	(14.00)
75	75	75	75	3600	(75.00)	540	(11.25)	730	(15.00)
80	80	80	80	3840	(80.00)	580	(12.00)	730	(15.00)
85	85	85	85	4080	(85.00)	620	(12.75)	730	(15.00)
90	90	90	90	4320	(90.00)	650	(13.50)	730	(15.00)
95	95	95	95	4560	(95.00)	690	(14.25)	730	(15.00)
100	100	100	100	4800	(100.00)	730	(15.00)	730	(15.00)
—	—	—	No limit*	No limit*		730	(15.00)	730	(15.00)

\* There is no limit for optional performance grades (PG) in the AW performance class, as long as they are specified in 5 psf (240 Pa) increments.

<sup>1</sup> AAMA/WDMA/CSA 101/I.S.2/A440-08, NAFS—North American Fenestration Standard/Specification for windows, doors and skylights.

<sup>2</sup> CSA A440S1-09, Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440-08, NAFS—North American Fenestration Standard/Specification for windows, doors and skylights.

## Using the Table to Select Performance Grade and Water Test Pressure

The Canadian Supplement requires Performance Grade and Water Penetration Resistance Test Pressure values to be specified and reported only in the allowable values given in Table 1 and Table 3 of NAFS-08.

First the Performance Grade (PG) is selected on the basis of Design Pressure, using the Specified Wind Load as determined using the Canadian Supplement or Part 4 of the Building Code. When the Specified Wind Load falls between the allowable Design Pressure values, select the higher value.

Next the Specified Driving Rain Wind Pressure (DRWP) is determined using the Canadian Supplement. When the Specified DRWP falls between the Water Penetration Resistance Test Pressure values in this table, select the higher value.

Note that the Water Penetration Resistance Test Pressure can be higher than the value associated with the Performance Grade, but it cannot be lower: by definition, a PG30 product of Class R, LC, or CW cannot have a water penetration resistance less than 220 Pa, but it can be higher, as long as it is specified using allowable values.