Tempered Pressboard Properties and Classifications

CLASS	Nominal Thickness		WATER RESISTANCE (MAX. AVG. PER PANEL)		MODULUS OF RUPTURE (Min. Avg.Per Panel)		TENSILE STRENGTH (Min. Avg. Per Panel)				ANSI A135.4 2004 Color Code on sides of sheet stack	
			Water Absorption Based On Weight	Thickness Swelling			Parallel To Surface		Perpendicular To Surface			
	INCH	mm	PERCENT	PERCENT	PSI	Mpa	PSI	Mpa	PSI	Mpa		
1 TEMPERED	1/12	2.1	30	25	6000	41.4	3000	20.7	130	0.90	1 RED	
	1/10	2.5	25	20								
	1/8	3.2										
	3/16	4.8										
	1/4	6.4	20	15								
	5/16	7.9	15	10								
	3/8	9.5	10	9								
2 STANDARD	1/12	2.1	40	30	4500	31.0	2200	15.2	90	0.62	1 GREEN	
	1/10	2.5	35	25								
	1/8	3.2										
	3/16	4.8										
	1/4	6.4	25	20								
	5/16	7.9	20	15								
	3/8	9.5	15	10								
3 SERVICE TEMPERED	1/8	3.2	35	30	4500	31.0	2000	13.8	75	0.52	2 RED	
	3/16	4.8	30	30								
	1/4	6.4	30	25								
	3/8	9.5	20	15								
4 SERVICE	1/8	3.2	45	35	3000	20.7	1500	10.3	50	0.34	2 GREEN	
	3/16	4.8	40									
	1/4	6.4		30								
	3/8	7.9	35	25								
	7/16	9.5	35									
	1/2	12.7	30	20								
	5/8	15.9	25									
	11/16	17.5										Non-ANSI Thickness
	3/4	19.1										
	13/16	20.6										
	7/8	22.2										
	1	25.4										
	1 1/8	28.6										
5 INDUSTRIALITE	1/4	6.4	50	30	2000	13.8	1000	6.9	25	0.17	1 BLUE	
	3/8	9.5	40	25								
	7/16	11.1										
	1/2	12.7	35									
	5/8	15.9	30	20								
	11/16	17.5										Non-ANSI Thickness
	3/4	19.1	25									
	13/16	20.6										
	7/8	22.2										
	1	25.4										
	1 1/8	28.6										

Sources: http://www.hollandsw.com/industrial-classifications.html
http://www.compositepanel.org/userfiles/filemanager/573/
ANSI A135.4-2004 specification

ANSI A135.4-2004 Marks shall be applied to all four edges of the board 3" from the right side.