Laboratory			Indian Plywood Industries Research and Training Institute, B-65, Phase-7, Industrial Area, Mohali, Punjab				
Acc	reditation Standar	d ISO/IEC 17025: 2005					
Disc	cipline	Mechanical Testing	ŀ	ssue Date	03.06.2014		
Certificate Number Last Amended on		T-2072	١	/alid Until	02.06.2016		
		-	F	Page	1 of 6		
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specificatio against which tests are performed		e of Testing / s of Detection		
I.	BUILDING MATER	RIALS					
1.	Plywood for General Purpose	Moisture content	IS 1734 (Part I): 1983 (RA 20	008) 1 % to	0 35 %		
		Glue Adhesion Resistance to water (cyclic test)	IS 303-1989 (RA 2008)				
		Adhesion of plies	IS 1734 (Part 5) :1983 (RA 20	008) Qualit	ative		
		Resistance to Micro-organisms, Adhesion of plies	IS 1734 (Part 7): 1983 (RA 20	008) Qualit	ative		
		Modulus of Elasticity Along the grain	IS 1734 (Part 11): 1983 (RA 2008)	(100 t	o12000) N/mm ²		
		Across the grain	IS 1734 (Part 11):1983 (RA 2008)	(1 to 1	2000) N/mm ²		
		Modulus of Rupture Along the grain	IS 1734 (Part 11): 1983 (RA 2008)	(5 to1	20) N/mm ²		
		Across the grain	IS 1734 (Part 11):1983 (RA 2008)	(1 to1	20) N/mm ²		
2.	Decorative Plywood	Moisture content Resistance to water (cyclic test)	IS 1734 (Part I): 1983 (RA 20 IS 1328: 1996 (RA 2009)	008) 0.1% Qualit	to 20% ative		

Laboratory		-	Indian Plywood Industries Research and Training Institute, B-65, Phase-7, Industrial Area, Mohali, Punjab				
Accreditation Standard ISO/IEC 17025: 2005							
Disc	cipline	Mechanical Testing		Issue I	Date (3.06.2014	
Certificate Number		T-2072		Valid U	Jntil ()2.06.2016	
Last Amended on		-		Page	2	2 of 6	
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specificat against which tests are performed			of Testing / of Detection	
3.	Shuttering Plywood	Moisture content Glue adhesion strength in dry state	IS 1734 (Part I): 1983 (RA	1998)	0.1 % to	20 %	
		Glue shear strength Adhesion of plies (Knife test)	IS 1734 (Part 4): 1983 (RA IS 1734 (Part 5): 1983 (RA	,	(15 to 40 Qualitati		
		Resistance to water (After 72 hr. of boiling) Glue shear strength	IS 1734 (Part 4 and Part 6): (RA 2008)	1983	(10 to 40	00) N	
		Adhesion of plies (Knife test)	IS 1734 (Part 5 and Part 6) (RA 2008)	:1983	Qualitati	ve	
		Mycological test Glue shear strength	IS 1734 (Part 4 and Part 7) (RA 2008)	:1983	(10 to 40	00) N	
		Adhesion of plies (Knife test)	IS 1734 (Part 5 and Part 7): (RA 2008)	1983	Qualitati	ve	
		Tensile test Along the grain Across the grain Sum of tensile strengths	IS 1734 (Part 9): 1983 (RA IS 1734 (Part 9): 1983 (RA IS 1734 (Part 9): 1983 (RA	2008)	(10 to 12	0) N/mm ² 0) N/mm ² 0) N/mm ²	
		Modulus of Elasticity Along the grain Across the grain	IS 1734 (Part 11): 1983 (RA 2008) IS 1734 (Part 11): 1983 (RA 2008)			0) N/mm ² 0) N/mm ²	

Laboratory			Indian Plywood Industries Research and Training Institute, B-65, Phase-7, Industrial Area, Mohali, Punjab				
Acc	reditation Standar	d ISO/IEC 17025: 2005					
Disc	ipline	Mechanical Testing	ls	sue Date	03.06.2014		
Cert	ificate Number	T-2072	Va	Valid Until 02.06.20			
Last	Amended on	-	Pa	age	3 of 6		
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed		e of Testing / s of Detection		
		Modulus of Rupture Along the grain	IS 1734 (Part 11): 1983	(1 to 1	20) N/mm ²		
		Across the grain	(RA 2008) IS 1734 (Part 11): 1983 (RA 2008)		20) N/mm ²		
4.	Marine Plywood	Moisture content Glue adhesion strength in dry state	IS 1734 (Part I): 1983 (RA 200	08) 0.1 %	to 20 %		
		Glue shear strength Adhesion of plies (Knife test)	IS 1734 (Part 4): 1983 (RA 200 IS 1734 (Part 5): 1983 (RA 200		4000) N ative		
		Resistance to water (After 72 hr. of boiling) Glue shear strength	IS 1734 (Part 4 and Part 6): 193 (RA 2008)	83 (10 to	4000) N		
		Adhesion of plies (Knife test)	IS 1734 (Part 5 and Part 6): 198 (RA 2008)	83 Qualita	ative		
		Mycological test Glue shear strength	IS 1734 (Part 4 and Part 7): 198 (RA 2008)	183 (10 to	4000) N		
		Adhesion of plies (Knife test)	IS 1734 (Part 5 and Part 7): 198 (RA 2008)	83 Qualita	ative		

Laboratory			Indian Plywood Industries Research and Training Institute, B-65, Phase-7, Industrial Area, Mohali, Punjab				
Acc	reditation Standar	rd ISO/IEC 17025: 2005					
Disc	ipline	Mechanical Testing		Issue Date		03.06.2014	
Cert	ificate Number	T-2072		Valid	Until	02.06.2016	
Last	Amended on	-		Page		4 of 6	
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specificati against which tests are performed			e of Testing / s of Detection	
5.	Flush Door Shutter	 Tensile test Along the grain Across the grain Sum of tensile strengths Modulus of Elasticity Along the grain Across the grain Modulus of Rupture Along the grain Across the grain Measurement of Dimensions Length Width Thickness Squareness General flatness Local planeness (b) Knife test (c) Slamming test (d) Flexure test 	IS 1734 (Part 9): 1983 (RA IS 1734 (Part 9): 1983 (RA IS 1734 (Part 9): 1983 (RA IS 1734 (Part 1))1983 (RA IS 1734 (Part 11)1983 (RA IS 1734 (Part 11)1983 (RA IS 1734 (Part 11)1983 (RA IS 1734 (Part 11)1983 (RA IS 4020 (Part 2):1998 (RA 2 IS 4020 (Part 3):1998 (RA 2 IS 4020 (Part 4):1998 (RA 2 IS 4020 (Part 14):1998 (RA 2 IS 4020 (Part 10): 1998 (RA 2008) IS 4020 (Part 6): 1998 (RA 2008)	2008) 2008) 2008) 2008) 2008) 2008) 2008) 2008) 2008) 2008) 2008) 2008) 2008) 2008)	(10 to1 (20 to) (1 to 1 (1 to 1) (1 to 1) (1 to 1) (1 to 1) (1 to 1) (200 to (200 to (25 to) (0.04 t) (0.02 t) Qualita		

Laboratory		•	Indian Plywood Industries Research and Training Institute, B-65, Phase-7, Industrial Area, Mohali, Punjab				
Acc	reditation Standar	d ISO/IEC 17025: 2005					
Disc	ipline	Mechanical Testing	ls	ssue Date	e 03.06.2014		
Certificate Number		T-2072	v	alid Unti	02.06.2016		
Last Amended on		-	Р	age	5 of 6		
S.No.	Product / Material of Test	Specific Test Performed	Test Method Specificatior against which tests are performed		ge of Testing / its of Detection		
		(e) Shock resistance test	IS 4020 (Part 8): 1998 (RA 20	008) Qua	litative		
		(f) Buckling test	IS 4020 (Part 9): 1998 (RA 20	008) (1 to	o 100) mm		
		(g) Edge loading test	IS 4020 (Part 7): 1998 (RA 20	008) (1 to	o 50) mm		
		(g) Screw withdrawal strength	IS 4020 (Part 16):1998 (RA 20	008) (10	to 5000) N		
		(h) Varying humidity test	IS 4020 (Part 12):1998 (RA 20		litative 2 to10) mm		
		(i) Misuse test	IS 4020 (Part 11):1998 (RA 20	008) Qua	litative		
6.	Panel Door Door Shutter	Measurement of Dimensions Length Width Thickness Squareness General flatness Local planeness Impact indentation Slamming test	IS 4020 (Part 2): 1998(RA 20 IS 4020 (Part 3): 1998(RA 20 IS 4020 (Part 4): 1998(RA 20 IS 4020 (Part 5): 1998 (RA 20 IS 4020 (Part 1): 1998 (RA 20	008) (200 008) (25 ± 008) (0.0 008) (0.0 008) (0.0 008) (0.0 008) (0.0 008) (0.0 008) (0.0	0 to 2500) mm 0 to 1500) mm to 50) mm 4 to 5) mm 4 to 10) mm 2 to 2) mm 12 to 2) mm 12 to 2) mm		
		Flexure test	IS 4020 (Part 6): 1998 (RA 20	, -	o 100) mm		
		Shock resistance test	IS 4020 (Part 8): 1998(RA 200	, , ,	litative		

Laboratory	Indian Plywood Industries Research and Tra B-65, Phase-7, Industrial Area, Mohali, Punja	od Industries Research and Training Institute, /, Industrial Area, Mohali, Punjab	
Accreditation Standard	ISO/IEC 17025: 2005		
Discipline	Mechanical Testing	Issue Date	03.06.2014
Certificate Number	T-2072	Valid Until	02.06.2016
Last Amended on	-	Page	6 of 6

6.No.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
		Buckling test	IS 4020 (Part 9): 1998 (RA 2008)	(1 to 100) mm
		Edge loading test	IS 4020 (Part 7): 1998(RA 2008)	(1 to 100) mm
		Screw withdrawal strength	IS 4020 (Part 16): 1998(RA 2008)	(10 to 5000) N
		Misuse test	IS 4020 (Part 11): 1998 (RA 2008)	Qualitative
7.	Block Board	Dimensions, Dimensional changes caused by humidity	IS 1659 -2004 (RA 2009)	(0.1 to 250) mm
		Resistance to water	IS 1659 -2004 (RA 2009)	Qualitative
		Adhesion of plies	IS 1659 -2004 (RA 2009)	Qualitative
		Mycological test	IS 1659 -2004 (RA 2009)	Qualitative
		Modulus of elasticity	IS 1659 -2004 (RA 2009)	100 -12000
		Modulus of rupture	IS 1659 -2004 (RA 2009)	1 -120