



Declaration of Performance

No. 1224-CPR-0002

CSA 0121 - DFP

Douglas fir plywood (DFP), unsanded or overlaid concrete formwork, thickness (see over), width and length - 1200mm x 2400mm or 1220mm x 2440mm

For structural or non-structural use in internal or external applications in construction

Technical Class EN 636-3

Specific floor, wall and roof details as identified

Produced by:

RICHMOND PLYWOOD CORPORATION LIMITED

13911 Vulcan Way, Richmond, B.C., Canada V6V 1K7

Tel: 01-604-278-9111

Fax: 01-604-278-2617

E-mail: tksales@richply.com

Assessment and Verification of Constancy of Performance (AVCP)


System 2+

Notified Factory Production Control Certification Body No.1224, BM TRADA Certification Limited, performed the initial inspection and continues to perform surveillance under AVCP System 2+.

Declared performance

Essential characteristics	Performance	Harmonised Technical Specification
Bending strength (Characteristic values)	N/mm ²	EN 13986: 2004 + A1: 2015
$f_{m,0}$	Values for each thickness as provided in 'Strength and stiffness for structural use'	
$f_{m,90}$		
Bending stiffness (MoE) (Mean)		
$E_{m,0}$		
$E_{m,90}$		
Bonding quality EN 314-2: 1993	Class 3, non-covered exterior	
Release of formaldehyde	E1	
Reaction to fire	D-s2, d0 D _{FL} -s1	
Water vapour permeability (Table 9)	Wet cup: 66µ Dry cup 190µ	
Airborne sound insulation	NPD	
Sound absorption	Table 10	
Thermal conductivity	0.12 W/(m · K)	
Strength and stiffness for structural use <i>Determined according to EN 789</i>	See over	
Strength and stiffness under point load for structural use	For floor, roof and wall applications See over	
Impact resistance for structural use		
Biological durability - natural EN 350-2: 1994, durability class	5 <i>sapwood is not specifically excluded</i>	
Mechanical durability	k_{mod} and k_{def} from EN 1995-1-1	
Content of pentachlorophenol		
Regulated dangerous substances	NPD	

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DOUGLAS FIR PLYWOOD Unsanded		Strength and stiffness for structural use Determined according to EN 789						
		Declared performance (N/mm ²)						
		Thickness (mm)	9.5	12.5	15.5	17.5	18.5	22.5
Plies		3	4	5	7	6	7	8
Characteristic strength								
Bending	$f_{m,0}$	24,9	22,1	26,2	23,8	23,8	25,3	24,1
	$f_{m,90}$	5,4	7,0	9,6	10,7	10,7	10,3	10,8
Tension	$f_{t,0}$	13,3	10,1	10,9	11,4	11,4	10,8	9,5
	$f_{t,90}$	4,3	6,4	5,9	5,0	5,0	6,5	8,1
Compression	$f_{c,0}$	20,1	15,2	16,5	17,3	17,3	16,3	14,4
	$f_{c,90}$	8,0	11,7	7,8	6,5	6,5	8,5	10,6
Panel shear	$f_{v,0}$ & $f_{v,90}$	3,5	3,5	3,5	3,5	3,5	3,5	3,5
Planar shear in bending	$f_{r,m,0}$	0,89	0,95	1,31	1,07	1,07	1,16	0,90
Mean modulus of elasticity								
Bending	$E_{m,0}$	12 290	10980	9 930	9100	9100	9650	9260
	$E_{m,90}$	490	1230	2 110	2640	2640	2800	3070
Tension & Compression	$E_{t,0}$ & $E_{c,0}$	7 680	5840	6 300	6620	6620	6250	5520
	$E_{t,90}$ & $E_{c,90}$	3 250	4780	3 190	2670	2670	3480	4320
Panel shear	G_v	500	500	500	500	500	500	500
EN 636 and EN 12369-2 F/E Classification		F 15/3 E 80/-	F 10/3 E 70/5	F 15/5 E 60/10	F 15/5 E 60/10	F 15/5 E 60/10	F 15/5 E 60/10	F 15/5 E 60/20
5 th percentile values for stiffness		0,67 times the mean values above						
Density kg/m ³		Mean	500	Characteristic			460	
For floor, roof and wall applications Fixing - nail spacing in all cases: panel perimeter 150 mm, intermediate supports 300 mm					Point Load Properties			Load Category
	Thickness	Grade	Edge support	Orientation	Mean Stiffness R_{mean} (N/mm)	5% Serviceability Char value $F_{ser,k,05}$ (N)	5% Ultimate Load Char value F_{max} (N)	
Floor Decking Span 610 mm	18,5 mm	Select	T&G	Face grain perp. to supports	361	2470	3470	A - domestic residential inc floors, stairs, balconies
Roof Decking Span 488 mm	12,5 mm	Sheathing	Solid blocking	Face grain perp. to supports	322	3720	4820	H - roofs not accessible except for maint. & repair
Wall Sheathing Span 610 mm	9,5 mm	Sheathing	All edges supported by framing	Face grain perp. or parallel to framing	-	-	-	Meets EN 12871 soft body impact criteria 240 Joules
The performance of the product identified above is in conformity with this declared performance.								
This Declaration of Performance is issued under the sole responsibility of the producer identified above.								
Signed for and on behalf of the producer by:								
Mark Sutherland, Vice President, Sales								
Richmond, B.C., Canada		January 30, 2017						
(place and date of issue)					(signature)			