DECLARATION OF PERFORMANCE CPR240

Structural Plywood

Construction product

Vänerply K20/70, Vänerply C/C, Vänerply C+/C, Vänerply CP/C

CE-marked EN 636-2 S according to SS-EN 13986:2004+A1:2015

Intended use of the construction product

For structural uses according to Eurocode 5 (EN 1995-1-1), and for other purposes where strength and stiffness of the structure is essential.

Producer

Company: Moelven Vänerply AB
Address: Industrivägen 10
547 81 OTTERBÄCKEN
Sverige
Telephone: 010-122 66 00
E-mail: info.vanerply@moelven.se
Web site: www.moelven.se

System of assessment and verification of constancy of performance of the construction product

System 2+.

Certification

The notified body SP Technical Research Institute of Sweden (identification number 0402) has performed an initial inspection of the manufacturing plant and of the factory production control and performs continuous surveillance, assessment and evaluation of our factory production control. SP has issued EC Certificate of Factory Production Control No. 0402 – CPR – 169002

Declared performance

Performance of structural plywood in accordance with the harmonised European standard EN 13986:2004+A1:2015

Essential characteristics	*Declared Performance*
Bending strength	See attached (Annex 1 and 2)
Bending stiffness (Modulus of Elasticity)	See attached (Annex 1 and 2)
Bonding quality	3 according to SS-EN 314-2
Durability (Moisture resistance)	Bonding quality 3 according to SS-EN 314-2 Service class 2 according to SS-EN 1995-1-1 Use class 2 according to SS-EN 335:2013
Release of formaldehyde	E1
Reaction to Fire	D-s2, d0 (according to SS-EN 13501-1)

That the performance for our construction product structural plywood is in accordance with the declared performance given above is certified:

Otterbäcken, 2017-01-02

Moelven Vänerply AB

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Ari Heikkinen, Managing director

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Annex 1

Plywood according to EN 13986:2004+A1:2015
Complying with EN 636:2012+A1:2015
For use in service class 1 and 2 according to EN 1995-1-1
Manufactured by: Moelven Vänerply AB
The characteristic values given below are from tests and calculations.

Unsanded

		Characteristic strenght (N/mm^2 or MPA) and density (kg/m^3)								
Thickness (mm)	Number of layers	Density	Bending		Tension		Compression		Panel Shear	Planar Shear
			$f_{m},0$	$f_{m},90$	$f_{t},0$	$f_{t},90$	$f_{c},0$	$f_{c},90$	f_{v}	f_{r}
9	3	420	22	NPD	12	4	17	4	3	1
12	5	420	25	7	11	7	15	10	3	1
15	5	420	25	7	11	7	15	10	3	1
18	5	420	26	7	11	7	15	10	3	1
21	7	420	23	8	10	8	14	11	3	1
24	7	420	24	7	11	7	16	9	3	1
27	7	420	20	7	10	8	14	9	3	1

		Mean modulus of elasticity (N/mm^2 or MPA)					
Thickness (mm)	Number of layers	Bending		Tension and compression		Panel Shear	Planar Shear SS-EN 12369-2
		$E_{m},0$	$E_{m},90$	$E_{t},0$	$E_{t},90$	G_{v}	G_{r}
9	3	9000	NPD	6300	NPD	600	NPD
12	5	9000	2100	6375	4250	600	16
15	5	8913	2000	6324	4216	600	16
18	5	9501	2100	6460	4307	600	16
21	7	8006	2900	6023	4517	600	16
24	7	8171	2400	6460	3953	600	16
27	7	7000	2700	5856	4356	600	16

Annex 2

Plywood according to EN 13986:2004+A1:2015
Complying with EN 636:2012+A1:2015
For use in service class 1 and 2 according to EN 1995-1-1
Manufactured by: Moelven Vänerply AB
The characteristic values given below are from tests and calculations.

Sanded

		Characteristic strenght (N/mm^2 or MPA) and density (kg/m^3)								
Thickness (mm)	Number of layers	Density	Bending		Tension		Compression		Panel Shear	Planar Shear
			$f_{m},0$	$f_{m},90$	$f_{t},0$	$f_{t},90$	$f_{c},0$	$f_{c},90$	f_{v}	f_{r}
9	3	420	20	NPD	11	6	15	8	3	1
12	5	420	21	6	10	7	14	10	3	1
15	5	420	22	6	10	7	14	10	3	1
18	5	420	22	6	10	7	14	10	3	1
21	7	420	20	7	9	8	13	11	3	1
24	7	420	20	6	10	7	14	9	3	1

		Mean modulus of elasticity (N/mm^2 or MPA)					
Thickness (mm)	Number of layers	Bending		Tension and compression		Panel Shear	Planar Shear SS-EN 12369-2
		$E_{m},0$	$E_{m},90$	$E_{t},0$	$E_{t},90$	G_{v}	G_{r}
9	3	7000	NPD	5600	NPD	600	NPD
12	5	7056	1800	5695	4250	600	16
15	5	7259	1700	5780	4216	600	16
18	5	7369	1800	5780	4307	600	16
21	7	7000	2600	5537	4517	600	16
24	7	7000	2100	5950	3953	600	16