DECLARATION OF PROPERTIES no. 1311 NOVATOP SOLID

Identification code

of the product type: 11SM

Intended use: The panels are designed as bearing elements in building structures and timber

assemblies, such as wall, ceiling and roof elements. The panels are designed

only in operation classes 1 and 2 in accordance with EN 1995-1-1/A1.

Manufacturer: AGROP NOVA a. s., Ptenský Dvorek 99, 798 43 Ptení, the Czech Republic,

Telephone: +420 582 319 235, Tax ID: CZ26243237

The system of assessment and

verification of properties: System 1

European document

for assessment: EAD 130005-00-0304, issued in March 2015

European Technical Assessment: ETA 11/0310 of 03/29/2017

Technical Assessment Technický a zkušební ústav stavební Praha, s.p.

Body: (Technical and Test Institute for Construction Prague)

The notified body: Technický a zkušební ústav stavební Praha, s.p.

(Technical and Test Institute for Construction Prague)

Basic requir	The testing method						
Basic requirements		C 16	C 24	ČSN EN 338			
Mechanical behaviour perpendicular to the panel plane [N/mm²]							
f _{m,k}	Bending strength	18,5	24,0	EAD, čl. 2.2.1.1			
f t,90,k	Tensile strength	0,4	0,5	ČSN EN 14080			
c,90,k	Compression strength	2,2	2,5	ČSN EN 14080			
f v,90,k	Shear strength perpendicular to board fibres	0,8	0,8	EAD, čl. 2.2.1.3			
: v,90,k	Shear strength parallel to board fibres (reduced)	2,1	2,7	ČSN EN 14080			
mean,0	Modulus of elasticity parallel to board fibres	8400	11500	EAD, čl. 2.2.1.1			
 m,90	Modulus of elasticity perpendicular to board fibres	280	300	ČSN EN 14080			
G mean,90	Shear modulus of elasticity parallel to board fibres	520	650	ČSN EN 14080			
G mean,9090	Modulus of elasticity perpendicular to board fibres	50	50	EAD, čl. 2.2.1.1			



Mechan	nical behaviour in the panel plane [N/n	nm²]			
f _{m,k}	Bending strength	18.5	24.0	EAD, čl. 2.2.1.1	
f t,90,k	Tensile strength parallel to board fibres	13.0	19.2	ČSN EN 14080	
f c,90,k	Compression strength	17.0	24.0	ČSN EN 14080	
E mean,0	Modulus of elasticity parallel to board fibres	8400	11500	EAD, čl. 2.2.1.1	
f v,90,k	Shear modulus of elasticity parallel to board fibres calculated in the overall cross section	1.7	1.7	EAD, čl. 2.2.1.3	
G _{mean,90}	Shear modulus of elasticity parallel to board fibres	520	720	EAD, čl. 2.2.1.3	
Creep and permanent load		$k_{\mbox{\scriptsize mod}}$ and $k_{\mbox{\scriptsize def}}$ according to ČSN EN 1995-1-1, Tables 3.1 and 3.2, are used.			
Dimensional stability		No changes in moisture content are allowed during the operation so as to avoid undesirable deformations.			
Operation	al stability	Operation class 1 and 2 accordi		ng to ČSN EN 1995-1-1	
Operation class 1 and 2 according to ČSN EN 1995-1-1		Complies		EAD, čl. 2.2.1.8	
Declared p	properties of the materials used			The testing method	
Reaction to fire Glued laminated wood products		D-s2, d0		EN 13501-1 + A1	
Reaction to fire Glued laminated wood products		The property has not been assessed		ČSN EN 13501-2	
Formaldehyde emission class		E1 (emission class)		ČSN EN 13986+A1 (ČSN EN 717-1)	
Factor of diffusion resistance (μ)		70 (dry) / 200 (wet)		ČSN EN ISO 10456	
Impact resistance		The soft body impact is assumed to be suitable for walls with at least 3 layers and a minimum thickness of 60 mm			
Weighted airborne sound insulation (Rw)		The property has not been assessed		ČSN EN ISO 10140-2	
The property has not been assessed (Ln,w)		The property has not been assessed		ČSN EN ISO 10140-3	
Sound absorption		The property has not been assessed		ČSN EN ISO 354	
Heat transfer coefficient		The property has not been assessed ($\lambda = 0.13 \text{ W/(m\cdot K)}$		ČSN EN ISO 10456	
Air permeability		The property has not been assessed		ČSN EN 12114	
Specific heat capacity		The property assessed (cp =	has not been	ČSN EN ISO 10456	

The properties of the above-stated product are in accordance with the set of declared properties. This Declaration of Properties is issued in accordance with Regulation (EU) no. 305/2011 under the sole responsibility of the aforementioned manufacturer.

Signed for and on behalf of the manufacturer:

In Ptení, on September 13, 2018

Ing. Mgr. Vladimír Crhonek Managing Director of AGROP NOVA a.s

