

## MEDILAND NESTING

### TECHNICAL DATA-AVERAGE VALUES

Rev: 08/03/2017

PROPERTIES	TEST METHOD	UNITS	THICKNESSES mm			
			10/12	>12/19	>19/30	>30/38
DENSITY (*)	EN 323	kg/m <sup>3</sup>	720	690/640	630/620	620
INTERNAL BOND	EN 319	N/mm <sup>2</sup>	≥ 0,60	≥ 0,55	≥ 0,55	≥ 0,50
BENDING STRENGTH	EN 310	N/mm <sup>2</sup>	≥ 22	≥ 20	≥ 18	≥ 17
MODULUS OF ELASTICITY	EN 310	N/mm <sup>2</sup>	≥ 2500	≥ 2200	≥ 2100	≥ 1900
THICKNESS SWELLING 24 H	EN 317	%	≤ 15	≤ 12	≤ 10	≤ 8
DIMENSIONAL MOVEMENT LENGTH/WIDTH	EN 318	%	≤ 0,4	≤ 0,4	≤ 0,3	≤ 0,3
DIMENSIONAL MOVEMENT THICKNESS	EN 318	%	≤ 4	≤ 4	≤ 3	≤ 3
SURFACE SOUNDNESS	EN 311	N/mm <sup>2</sup>	≥ 1,2	≥ 1,2	≥ 1,2	≥ 1,2
SURFACE ABSORPTION (TWO FACES)	EN 382-1	mm	>150	>150	>150	>150
MOISTURE CONTENT	EN 322	%	7+/-3	7+/-3	7+/-3	7+/-3
GRIT CONTENT	ISO 3340	% Weight	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.05
FORMALDEHYDE EMISSION CLASS E1	EN ISO 12460-3	mg/(m <sup>2</sup> .h)	≤ 8	≤ 8	≤ 8	≤ 8
REACTION TO FIRE TABLA EN 13986:2004+A1:2015 I	EN 13501-1	Class	D-s <sub>2</sub> ,d <sub>0</sub> (**)	D-s <sub>2</sub> ,d <sub>0</sub> (***)	D-s <sub>2</sub> ,d <sub>0</sub>	D-s <sub>2</sub> ,d <sub>0</sub>
SOUND ABSORPTION COEFFICIENT (A) (250 A 500 HZ)	EN 13984:2004+A1:2015	α	0.10	0.10	0.10	0.10
SOUND ABSORPTION COEFFICIENT (A) (1000 A 2000 HZ)	EN 13984:2004+A1:2015	α	0.20	0.20	0.20	0.20
THERMAL CONDUCTIVITY	EN 13984:2004+A1:2015	W/ (m·K)	0.13	0.11	0.11	0.10
AIRBORNE SOUND INSULATION (SURFACE MASS) (R)	EN 13986:2004+A1:2015	db	26	28	29	32
WATER VAPOUR PERMEABILITY DRY CUP	EN 13986:2004+A1:2015	μ	17	14	13	13
WATER VAPOUR PERMEABILITY WET CUP	EN 13986:2004+A1:2015	μ	26	22	22	21
BIOLOGICAL DURABILITY USE	EN 13986:2004+A1:2015	Class of use	1	1	1	1
CONTENT OF PENTACHLOROPHENOL (PCP)	EN 13986:2004+A1:2015	%	< 5	< 5	< 5	< 5

### TOLERANCE ON NOMINAL DIMENSIONS

PROPERTIES	TEST METHOD	UNITS	THICKNESSES mm			
			10/12	>12/19	>19/30	>30/38
THICKNESS	EN 324-1	mm	+/-0,2	+/-0,2	+/-0,3	+/-0,3
LENGTH/WIDTH	EN-324-1	mm	+/- 2	+/- 2	+/- 2	+/- 2
			mm/m	mm/m	mm/m	mm/m
			max +/- 5 mm.	max +/- 5 mm.	max +/- 5 mm.	max +/- 5 mm.
SQUARENESS	EN 324-2	mm/m	+/-2	+/-2	+/-2	+/-2
EDGE STRAIGHTNESS	EN-324-2	mm/m	+/-1,5	+/-1,5	+/-1,5	+/-1,5

COLOR RESISTANCE TO UV LIGHT (XENON LAMP)	EN 14323	Blue wool scale, n°	>6
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(\*) VALUES TO BE CONSIDERED AS A ROUGH GUIDE ONLY.

(\*\*) Mounted without an air gap behind the MEDILAND NESTING. Mounted with a closed air gap not more than 22 mm behind the MEDILAND NESTING classification D-s<sub>2</sub>,d<sub>2</sub>. Classification E for any other less restrictive condition. Commission Decision 2007/348/EC.

(\*\*\*) Mounted without an air gap behind the MEDILAND NESTING, or with a closed air gap behind the MEDILAND NESTING for thicknesses equal or greater than 15mm or with an open air gap behind the MEDILAND NESTING for thicknesses equal or greater than 18 mm. Mounted with a closed air gap not more than 22 mm behind the MEDILAND NESTING classification D-s<sub>2</sub>,d<sub>2</sub> in thicknesses between >12 mm and 18 mm. Commission Decision 2007/348/EC.

These physical-mechanical values improve/comply with those established by EN 622-5:2009 European Standard, Table 3. Requirements for boards for use in dry conditions (type MDF)

MEDILAND NESTING meets Class E1 requirements (analysed according to EN ISO 12460-5) as defined in EN 622-1:2003 European Standard.

MEDILAND NESTING is endorsed by the CTBA Quality Label (number MQ183) regarding formaldehyde content.

(SELECT)

