



CIMENTO®

SMOOTH CIMENTO® Medium Density Fiberboard - MDF

ST04ver.1.8EN
24/08/15

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1. COMPOSITION

CIMENTO® Smooth Panelling has the following composition:

- woodboards of 2-side laminated MDF, raw MDF "E1" or fireproof MDF;
- finish **CIMENTO®** Smooth: concrete based mixture, 90% of its weight is made of cement powder and water, natural elements like oxides, calcium, silicon, aluminium, iron, magnesium, phosphates. It does not pass through any painting processes.

2. PRODUCTION PROCESS

CIMENTO® is produced in an industrial process offering a constant control of any wastage, which is then recycled and reintroduced into the productive cycle. This minimises waste, providing high efficiency while respecting the environment.

3. WEIGHTS, DIMENSION AND STANDARD TOLERANCES

The **CIMENTO®** finish weight is 2 Kg/m², the weights below are related to the substrate plus finish.

CIMENTO® thickness varies from 1÷2 mm.

Attention: for big size panels the thickness could vary from 0,5÷4 mm.

Thickness (mm)	19 mm (MDF) + 1÷2 mm (CIMENTO®)
Weight (kg/mq)	18,20

Sizes (mm)	Weight (kg/panel)
600 x 600	6,19
600 x 800	8,26
600 x 1200	12,38
800 x 1200	16,51

MDF Support

Tolerances	Compliance to EN 12467 (Level 1)
Thickness	+/- 0,5 mm
Length e width	0,2 mm
Orthogonality	0,2 mm

Thicknesses, sizes, and different substrates are subject to minimum volumes. Please contact SAI Industry for further information.

4. COLOURS

CIMENTO® Smooth finish can be coloured with pigments added into the mixture.

CIMENTO® Smooth - C01	White
CIMENTO® Smooth - C02	Cement
CIMENTO® Smooth - C03	DoveGrey
CIMENTO® Smooth - C04	Dark Grey
CIMENTO® Smooth - C05	Anthracite
CIMENTO® Smooth - C06	Black

Bespoke colours available.

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**5. TECHNICAL CHARACTERISTICS OF THE SUBSTRATE - MDF WOODPANELS**

Physical characteristics					
Properties	Test method	U.M.	MDF E1 (th. 12/19mm)	MDF Laminated (th. 12/19mm)	MDF Fireproof (th. 12/19mm)
Density	EN 323	Kg/m ³	760+/-5%	760+/-5%	700/680
Internal Traction	EN 319	N/mm ²	0,6	0,6	0,55
Bending resistance	EN 310	N/mm ²	20	20	20
Module of elasticity	EN 310	N/mm ²	2200	2200	2200
Swelling 24H	EN 317	%	12	12	12
Dimensional stability Length/Width	EN 318	%	0,5	0,5	0,5
Dimensional stability Thickness	EN 318	%	5	5	5
Silicate content	ISO 3340	%Weight	<= 0,05	<= 0,05	<= 0,05
Content of formaldehyde Class E1	EN 120	mg/100g	<= 0,08	<= 0,08	<= 0,08

Tolerances					
Properties	Test method	U.M.	MDF E1 (th. 12/19mm)	MDF Laminated (th. 12/19mm)	MDF Fireproof (th. 12/19mm)
Thickness	EN 324-1	mm	+/-0,2	+/-0,2	+/-0,2
Length e Width	EN 324-1	mm/m	+/-0,2	+/-0,2	+/-0,2
Square	EN 324-1	mm/m	+/-0,2	+/-0,2	+/-0,2
Edges linearity	EN 324-1	mm/m	+/-0,1	+/-0,1	+/-0,1

Tolerances					
Properties	Test method	U.M.	MDF E1 (th. 12/19mm)	MDF Laminated (th. 12/19mm)	MDF Fireproof (th. 12/19mm)
Fire reaction	UNI EN 13501-1	Euroclass	D-s2, d0	D-s2, d0	B-s2, d0*
Dry calor resistance	UNI EN 12722	Class	-	B	-
Humid calor resistance	UNI EN 12721	Class	-	B	-

*CERTIFICATE OF CONFORMITY n° 0380-CPD-0311 issued by FCBA on 1/1/2012

6. TECHNICAL CHARACTERISTICS OF THE FINISH - CIMENTO® LISCIO

A. Classification		
Fire reaction	D.M.26/06/1984	Class 0

B. Test of omologation or best value		
Test adhesion of finish to substrate	UNI 9240:1987	1.3 MPa
Test Hardness	UNI 10782:1999	HB
Exposition cycle to warm, cold and humid	UNI EN ISO 9142:2004	No issues
Test resistancy to scraping off	UNI EN 15185:2011	/// (15 rotations)

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7. SURFACE TREATMENTS

The following treatments can be applied on request:

IDROPROTECTOR: Emulsion of nanoparticles made of silicon and titanium molecules. Green, water based, it makes the CIMENTO® finish waterproof.

IDROSTAIN-R: Emulsion of nanoparticles made of silicon and fluorine polymers molecules. Green, water based, it makes the CIMENTO® finish waterproof and stain-resistant.

IDROSELF-A: Suspension of nanoparticles made of silicon and silicates nano-structured molecules. Green, water based, it makes the CIMENTO® finish anti-bacterial and self-cleaning, perfect for external application such as Ventilated Facade.

100% SEALED: Made of acrylic polymers. A thin layer of protective film gives CIMENTO® an excellent resistance to any kind of stain. Can be cleaned with common aggressive cleaners.

8. ADVANTAGES

- fire safe (no fire ignition, no spread of fire)
- sound insulating
- resistant to extreme temperatures
- water resistant (if in compliance with application guideline)
- resistant to many living organisms (fungi, bacteria, insects, vermin, etc.)
- resistant to many chemicals
- environmentally friendly, no harmful gas emissions

9. APPLICATION FIELDS

CIMENTO® panelling is perfect for the following application fields: Internal wall panelling.

If any doubts arise regarding the suitability of CIMENTO® panelling in specific application fields, please ask for specific instructions from SAI Industry. SAI Industry cannot be held responsible for non-standard applications made without approval.

10. CUTTING & DRILLING INSTRUCTIONS:

Please refer to the specific manual.

11. INSTALLATION INSTRUCTIONS:

Please refer to Installation Manual

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12. TOUCH UP INSTRUCTIONS

Please refer to the specific manual.

13. CLEANING

Please refer to the specific manual.

14. HANDLING AND STORAGE

CIMENTO® panelling are packed in chip-board crates, made to size for safe transportation. They should be properly supported in order to avoid any bending and should be stored in a dry and ventilated place. In case panels get wet in their package, the package shall be completely removed and panels shall be positioned well to let them dry up. It's suggested to let the panels get acquainted with the local environment. The panels should be lifted up from the pile by one or two persons depending on sizes, having great attention not to damage the panels in sensible points as corners and edges. Panels are stock face to face with a polyethylene paper in between to avoid accidental scratches. Please make sure that polyethylene paper is not removed during handling and subsequent storage.

15. SAFETY AND SECURITY

During the manipulation of the panels it is possible that some powder is produced that could be stinging for eyes and airways. Moreover, during cleaning it is possible that powder is produced which could irritate the eyes and airways. At all times allow for proper ventilation when working with the panels.

16. WARRANTY

Warranty is valid only if installation instructions are followed. If any doubts arise regarding the suitability of CIMENTO® panelling in specific application fields, please ask for specific instructions from SAI Industry. SAI Industry can't be held responsible for non-standard applications made without approval.

SAI Industry Srl

Via A.Volta, 1
30020 Noventa di Piave (VE)
T. +39 0421 65422
F. + 39 0421 308084
E. info@saiindustry.org
W. www.saiindustry.org

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