



## COURRAGED PVA-CEMENT SHEETS' PHYSICAL AND MECHANICAL SPECIFICATIONS:

### PHYSICAL SPECIFICATIONS

Specifications	Measure unit	Value	Norm	Observation
Apparent volumetric mass (Density)	$Kg/m^2$	~1.500	UNI EN494+A3	
Water resistance	-	Very good	UNI EN494+A3	Trace of umidity may occur on the inside surface, especially on the most recently installed sheets.
Sun- Rain cycles		No alteration	UNI EN494+A3	50 heating cycles at 70°C and cooling with rain at room temperature
Freeze-Thaw	-	-	UNI EN494+A3	100 cycles with variation of temperature from -20 ° to+ 20 ° C. Possible decrease of mechanical resistance up to 30%.
Immersion - drying	-	-	UNI EN494+A3	50 cycles of drying at + 60°c following a water immersion. Possible decrease of mechanical resistance up to 30%
Fire resistance	-	A1 classification	UNI EN13501-1: 2005	UNI EN494+A3
Water absorption	-	~ 25%	-	
Idric dilatation	Mm/m	~ 2	-	From dried to water saturation
Thermic enlargement coefficient*	Mm/m.K	~0,017	-	
Corrosion resistance accelerated in salt mist*	Visual valuation	Intact	UNI ISO 9227	Sample undergone for 1.176 h to a concentrated salt mist exposition treatment
Sound-absorbing value "R"	dB	~30	ISO 140 e 717	Valuation index at 500 Hz in the frequency band between 100 and 3.150 Hz
Factor of water steam diffusion resistance "u" Steam permeability "p"*	- mg/m.h.Pa	~17 0,044	UNI EN 12086	Average value of air thickness equal "Sd" 0,12 m
Thermal conductivity "l" *	W/(m.K)	~0,35	ISO 8302/91	
Upper calorific power	Mj/kg	< 3	EN ISO 1716	

## MECHANICAL SPECIFICATIONS

Specifications	Measure unit	Value	Norm	Observation
Minimum breaking load	N/m	4.250	UNI EN494+A3	Net span between the supports 1,10 m
Minimum bending moment	Nm/m	55	UNI EN494+A3	See norm
Impact resistance	Joule	600	EN494+A3	50kg-h mass, fall from 1,2m



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