CLIMA CONTROL 80

MEMBRANE WITH VARIABLE VAPOUR DIFFUSION

LCA | EPD | CLIMA SEARCH TEST | TESTED | EN 13984

AUS AS/NZS 4200.1 Class 2 Class 3

CH SIA 232 V.v.u.

D ZVDH Fv DIN 4108-3 DIN 68800-2

F DTU 31.2 Bs dve

I UNI 11470 D/R1

USA IRC Class2 vp

VARIABLE DIFFUSION

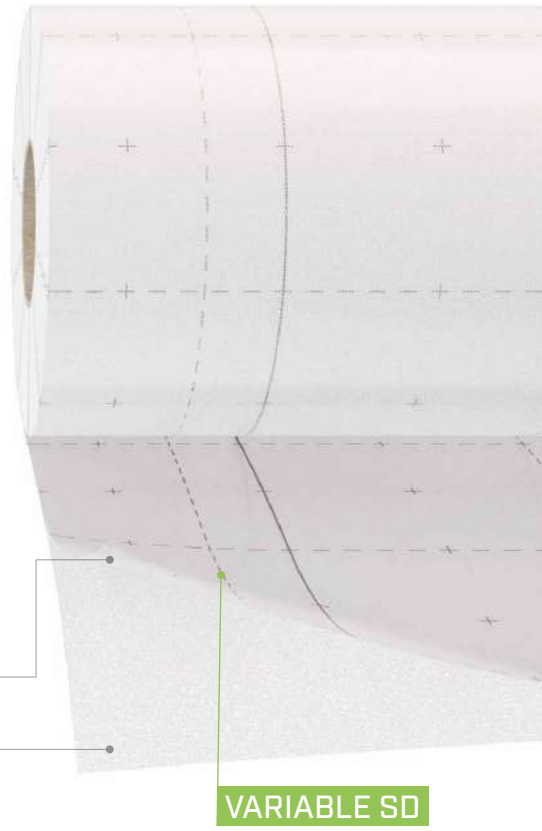
Variable resistance to vapour diffusion: maximum protection for walls and excellent security in insulation.

TRANSPARENCY

Easy to install thanks to its transparent quality; controls the passage of water vapour based on climate and humidity.

SCIENTIFICALLY TESTED

The product has been researched and tested by external scientific bodies who have also simulated its behaviour in real conditions.



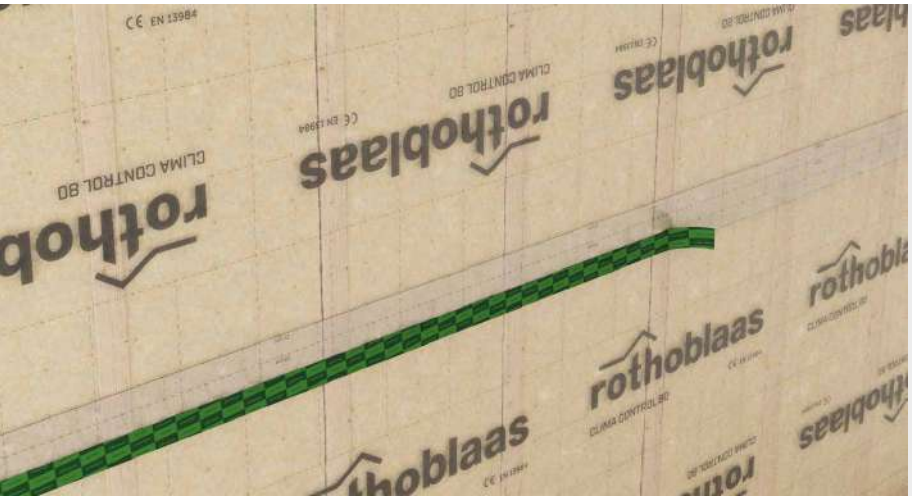
COMPOSITION

top layer
PA functional film

bottom layer
non-woven PP fabric

CODES AND DIMENSIONS

CODE	description	tape	H [m]	L [m]	A [m²]	*H [ft]*	*L [ft]*	*A [ft²]*	
CLIMA80	CLIMA CONTROL 80	-	1,5	50	75	*5*	*164*	*807*	81



EASY INSTALLATION

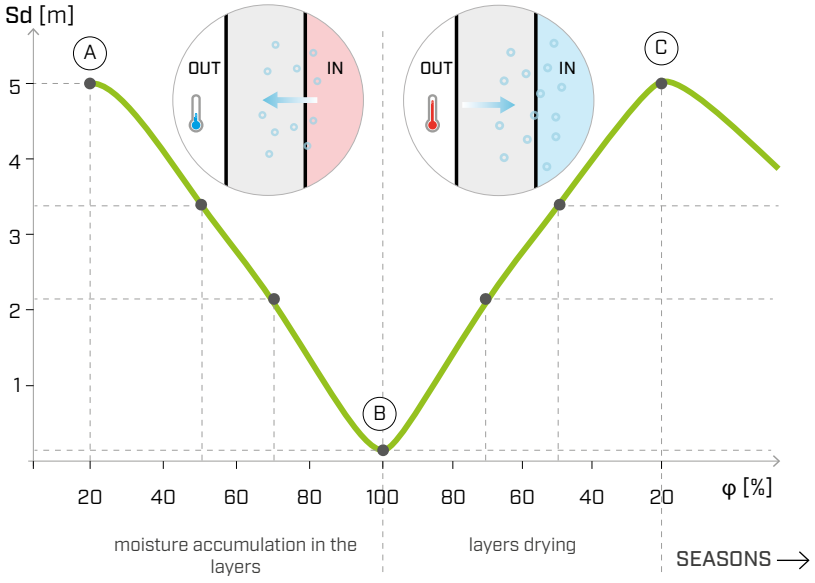
Ideal for installation directly on the substructure (struts or joists), thanks to its slight transparency.

RETROFIT

Thanks to its ability to adapt vapour diffusion according to the hygrometric conditions of the materials it comes into contact with, it is ideal for energy refurbishment of existing buildings.

TECHNICAL DATA

Properties	standard	value	*USC conversion*
Mass per unit area	EN 1849-2	80 g/m²	*0.26 oz/ft²*
Thickness	EN 1849-2	0,22 mm	*9 mil*
Variable water vapour transmission (Sd)	EN 1931	0,15 / 5 m	*23 / 0.7 US perm*
Dry/wet cup water vapour transmission	ASTM E96/ E96M	1.86/10.6 US perm 106/605 ng/(s·m²·Pa)	- -
Maximum tensile force MD/CD	EN 12311-2	> 120 / 90 N/50mm	*> 14 / 10 lb/in*
Elongation MD/CD	EN 12311-2	50 / 50 %	-
Resistance to nail tearing MD/CD	EN 12310-1	> 40 / 40 N	*9 / 9 lbf*
Watertightness	EN 1928	conforming	-
Indirect exposure to UV rays	-	2 weeks	-
Temperature resistance	-	-20 / 80 °C	*-4 / 176 °F*
Reaction to fire	EN 13501-1	class E	-
Resistance to penetration of air	EN 12114	< 0,02 m³/(m²h50Pa)	*< 0 cfm/ft² at 50Pa*
Vapour barrier	ASTM E 2178-13	conforming	-
Water vapour resistance:			
- after artificial ageing	EN 1296 / EN 1931	conforming	-
- in the presence of alkalis	EN 1847 / EN 12311-2	npd	-
Thermal conductivity (λ)	-	0,2 W/(m·K)	*0.12 BTU/h·ft·°F*
Specific heat	-	1700 J/(kg·K)	-
Density	-	approx. 400 kg/m³	*approx. 0.23 oz/in³*
Variable water vapour resistance factor (μ)	-	approx. 1000 / 25000	*approx. 0,75/25 MNs/g*
VOC content	-	0 %	-



(A) **DRY LAYERS : Sd 5 m**
maximum protection - vapour control layer to limit the passage of vapour in view of the season when moisture accumulates within the layers

(B) **HUMID LAYERS : Sd 0,15 m**
maximum breathability - breathable membrane
to allow drying during the reverse steam diffusion phenomenon

(C) **DRY LAYERS : Sd 5 m**
maximum protection for the start of a new year and a new cycle

HYGROMETRIC PROPERTIES

The special PA film gives the product the ability to adapt to the hygrometric conditions of the building. If the membrane comes into contact with high humidity levels, it transforms from a vapour barrier into a breathable product, guaranteeing that the structure remains dry.