

# SOLITEX FRONTA PENTA



Airtight, vapor-open,  
UV-resistant, 5-layer WRB  
for use with open-joint  
facades

## BENEFITS

UV-resistant, 5-layer, open weather resistant barrier (WRB) suitable for open joint siding/vented rainscreen and as temporary weatherproofing of the facade. Black membrane with black print, in combination with TESCON INVIS tape for darkest shadows behind gaps up to 2" (<40% open).

## TECHNICAL SPECS

Attribute	Norm	Value
Protective and Covering Fleeces		polypropylene microfiber
Membrane		Monolithic TEEE
Color		Black, Print: black
Surface weight	DIN EN 1849-2	280 g/m <sup>2</sup>
Thickness	DIN EN 1849-2	1.1 mm
Water vapor resistance factor $\mu$	DIN EN ISO 12572	185
sd-value	DIN EN ISO 12572	0.2 m
g-value		1.0 MN·s/g
Water vapor permeance	ASTM E96	17 US perms
Fire behavior	DIN EN 13501-1	E
Exposure time		6 months
Water Column	DIN EN ISO 811	33 ft (10,000 mm)



**475 High Performance Building Supply**

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TECHNICAL SPECS (continued)		
Attribute	Norm	Value
Water resistance un-/aged	DIN EN 13859-2	W1 / W1
Tensile strength MD/CD	EN 13859-2 (A)	480 N/5 cm / 340 N/5 cm ; 55 lb/in / 39 lb/in
Tensile strength MD/CD aged*	EN 13859-2 (A)	360 N/5 cm / 260 N/5 cm ; 41 lb/in / 30 lb/in
Elongation MD/CD	EN 13859-2 (A)	50 ±20% / 70 ±20%
Nail tear resistance MD/CD	EN 13859-2 (B)	250 ±30 N / 240 ±30 N ; 56 ±7 lbf / 54 ±7 lbf
*Long term artificial aging	DIN EN 1297 DIN EN 1296	Passed (for walls with open joints)
Flexibility at low temperature	EN 1109	-40 °F (-40 °C)
Temperature resistance		-40 °F (-40 °C) to +212 °F (100°C)
Coefficient of thermal conductivity		2.3 W/m·K

## APPLICATION

Follow the SOLITEX guides available on the SOLITEX FRONTA PENTA product page.

For all connections and overlaps use system components of Pro Clima's Intelligent Airtight System. Use TESCON VANA for overlaps, TESCON PROFIL for corner connections, CONTEGA HF to adhere to rough or uneven substrates & concrete connections, ROFLEX for pipes penetrations, KAFLEX gaskets for wire penetrations, etc. For a full introduction to airsealing with Pro Clima products, follow details found in 475's free downloadable ebooks.

SOLITEX FRONTA PENTA can be used as a weather resistive barrier and exterior airtight membrane on walls. For interior airtightness and vapor control, use INTELLO Plus vapor-variable, reinforced membrane. The Pro Clima Intelligent Airtight System provides complete protection against moisture-induced failures in structurally challenging constructions.



## GENERAL CONDITIONS

Pro Clima SOLITEX FRONTA PENTA membrane must be laid with the black side facing outwards. They can be laid flat either at right angles to, or parallel along the sub-structure without sagging or creases. Horizontal installation is preferable with regard to water tightness during the construction phase. The membrane must not be secured in areas where water collectively drains off.

The maximum on center spacing of the structure behind SOLITEX FRONTA PENTA is 40" (100 cm). After the membrane is applied, seams should be taped with TESCON INVIS and battens should be installed through the SOLITEX FRONTA PENTA into the structure. Apply battens as soon as possible to prevent damages from wind suction on the membrane.

When using behind open jointed façades the gaps must not be more than 2" (50 mm) at a maximum of 40% open total area. The width of the boarding: min. 3 x gap width. The distance between the façade and the membrane must be at least (3/4") (20 mm).