

Sigma Extra 300 S/W GREEN TINT VAPOUR BARRIER



Sigma Super 125 C/F GREEN TINT VAPOUR BARRIER



Description

Sigma Extra 300S/W and Super 125C/F Green Tint Vapour Barrier is used to control interstitial condensation within the fabric of a building and to increase the air tightness of the structure by restricting the passage of warm, moist air.

This is especially important when the barrier is used to control the passage of moisture laden air permeating into the roof void of the property where a cold roof has been designed.

The membrane is manufactured from virgin polythene with a green tint in 300mu and 125mu thicknesses and in roll sizes of 4.0m x 50m (125mu) centre folded roll and 2m x 50m (300mu) single wound roll.

The membrane is produced by the blown extrusion process.

Installation

Sigma Vapour Barrier should be installed in accordance with the recommendations of BS5250: 2002 'Code of practice for control of condensation in buildings'. Sigma Vapour Barrier should be installed on the "warm" side of the insulated structure and all penetrations and overlap seams must be sealed with tape to ensure a continuous barrier. It is important that Sigma Vapour Barrier should be continuous in order to prevent vapour entering the wall or the roof.

Before fixing the VCL membrane to a timber frame, all studs including vertical/horizontal studs, head and sole plate; Sigma Double Sided Jointing tape must be applied.

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Sigma Vapour Barrier (VCL)

Jointing

Ensure all surfaces are clean, smooth and dry prior to the application of Sigma Vapour Barrier Tapes. Surfaces do not require priming prior to tape application.

Sigma Vapour Barrier should be sealed with 50mm double sided butyl tape and the lap sealed down with 75mm aluminium lap tape. A lap pressure roller should be utilised to ensure a satisfactory seal.

Failure to suitably connect the VCL to other building elements will seriously reduce performance.

Nominal Characteristics – Extra 300S/W Green Tint Vapour Barrier

Mean Thickness	300 (mu)	(mean +/- 12% single value 80% of norm)
Roll Width	2m	(width range = +/- 2.5%)
Roll Length	50m	(width range = +/- 5%)
Roll Weight	27.6kgs	(weight range = +/- 10%)

Nominal Characteristics – Extra 125C/F Green Tint Vapour Barrier

Mean Thickness	125 (mu)	(mean +/- 12% single value 80% of norm)
Roll Width	4m	(width range = +/- 2.5%)
Roll Length	50m	(width range = +/- 5%)
Roll Weight	23kgs	(weight range = +/- 10%)

Samples of the 300mu membrane have been tested which showed the following typical values:

Test (300mu)	Method	Mean Results
Water Vapour Resistance (MNsg-1)	BS3177	530 MNs/g 25 deg c 75% RH

System Components

Sigma Extra 300 S/W GREEN TINT VAPOUR BARRIER

Sigma Super 125 C/F GREEN TINT VAPOUR BARRIER

Sigma VCL Joint Tape	Double sided butyl	50mm x 30m
Sigma VCL Lap Tape	Single sided aluminium	75mm x 45m
Sigma VCL Edge Tape	Bitumen aluminium	150mm x 20m

Sigma Vapour Barrier should be installed in accordance with the recommendations of BS5250: 2002 'Code of practice for control of condensation in buildings'.

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