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Silic8 AeroGel Adhesive

Installation Details for Internal Wall Insulation

Introduction

Silic8 AeroGel Adhesive is a water-based, alkaline mineral adhesive and primer, designed for use with AeroGel fleece, boards or tiles.

Silic8 AeroGel Adhesive has two key functions:

1. To adhere the AeroGel insulation to the substrate
2. To prime the AeroGel insulation before applying Solo Onecoat Lime Plaster

Silic8 AeroGel Adhesive remains vapour open while bonding with a wide variety of substrates*, including historic plaster, stone, brick, and other mineral substrates.

A full bed of Duro and Silic8 Aerogel Adhesive creates an air barrier while remaining capillary and vapour open to wick moisture away. This reduces the risk of damp or rot caused by the cold air that circulates within gaps between or behind insulation boards.

For particularly porous surfaces, Silic8 Penetrating Primer can be used first to reduce suction and stabilise the background, or use it to dilute with Silic8 AeroGel Adhesive (up to a maximum of 10% dilution).

It is important to remember that when you fit internal insulation, there is less heat getting into the wall. This makes the wall, including any exposed, un-insulated surface, colder than before and more likely to result in the formation of condensation within the wall.

		9" brick wall	13.5" brick and a half wall	500mm limestone wall
No Insulation	**U Value (W/m^2K)**	**1.65**	**1.34**	**1.40**
5mm Aerogel Blanket K Value = 0.015 W/mK	**U Value (W/m^2K)**	**1.07**	**0.93**	**0.96**
	% improvement	**35 %**	**30 %**	**31 %**
10mm Aerogel Blanket K Value = 0.015 W/mK	**U Value (W/m^2K)**	**0.79**	**0.71**	**0.72**
	% improvement	**52 %**	**47 %**	**48 %**

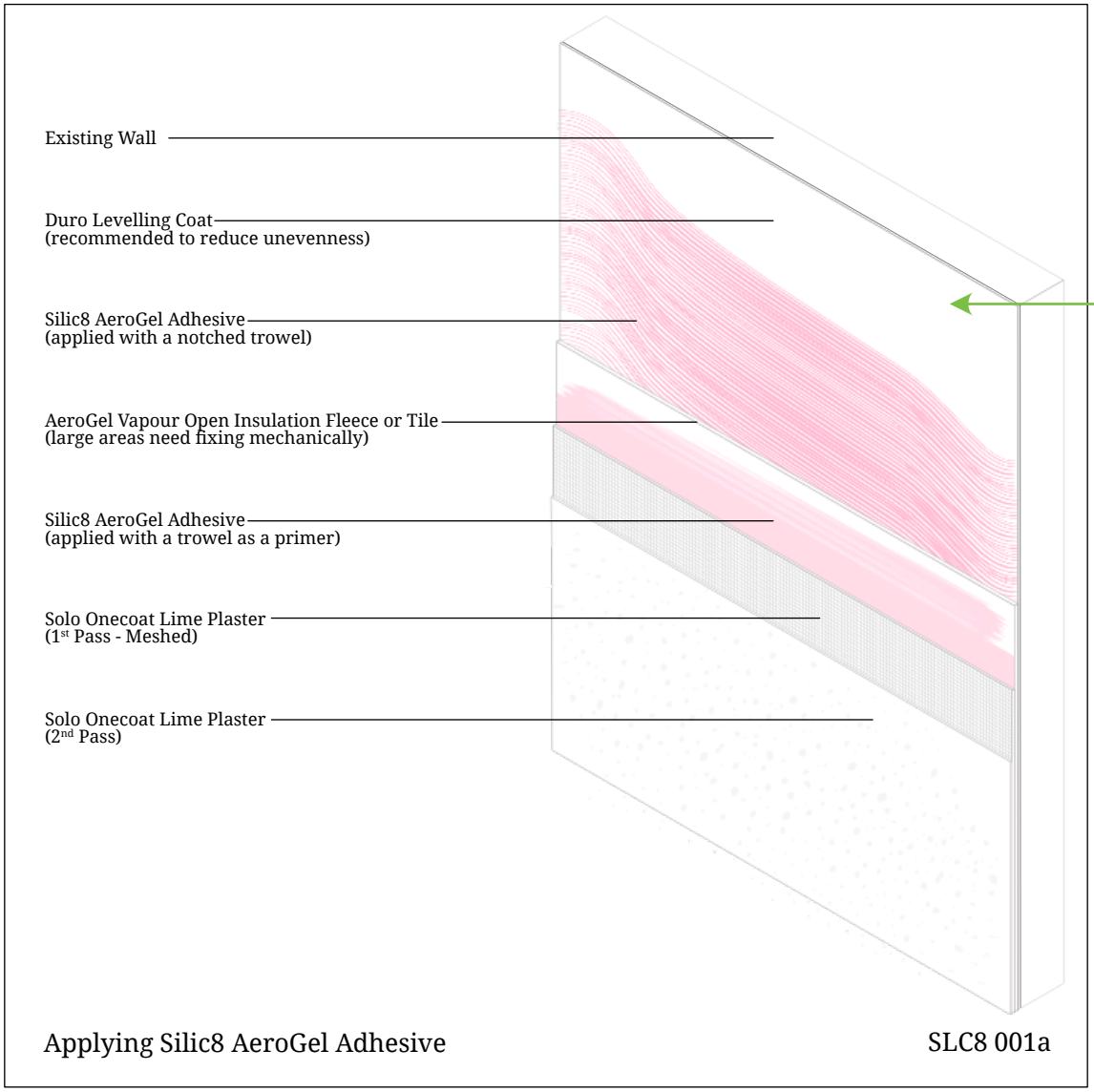
*We do not take responsibility for compatibility with any of the suggested or unlisted substrates types. Substrates should be tested for suitability before use, for which we accept no liability for misuse or failures outside our control, or for consequential loss howsoever arising.

Contents

Architectural Details - With Notes

Drawing Title
Applying Silic8 AeroGel Adhesive

Drawing No.
SLC8 001a

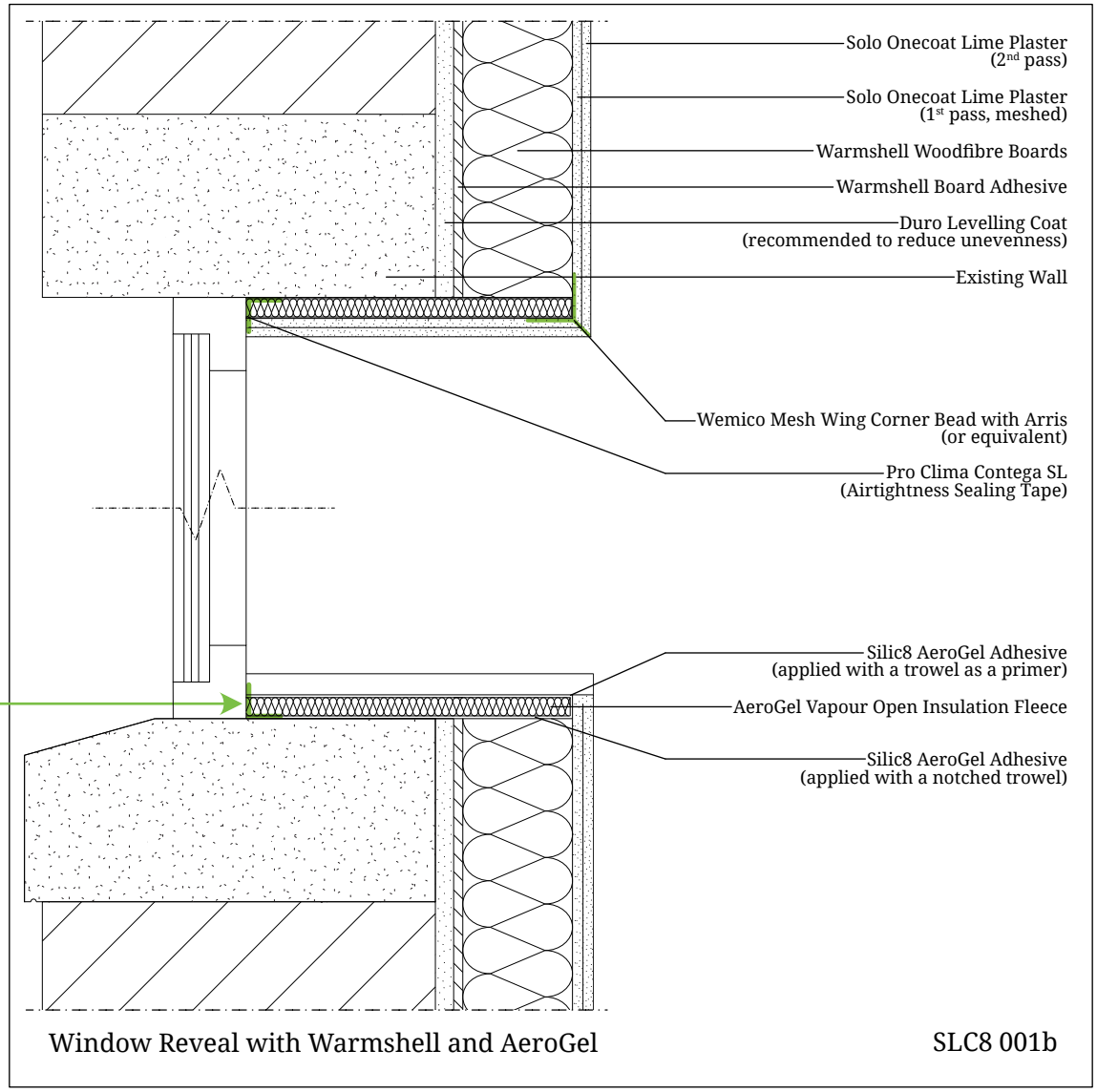


If additional thermal performance is required, Lime Green Duro can be substituted for Lime Green Ultra Lime Plaster, a light-weight, insulating basecoat.

Architectural Details - With Notes

Drawing Title
Window Reveal with Warmshell and AeroGel

Drawing No.
SLC8 001b



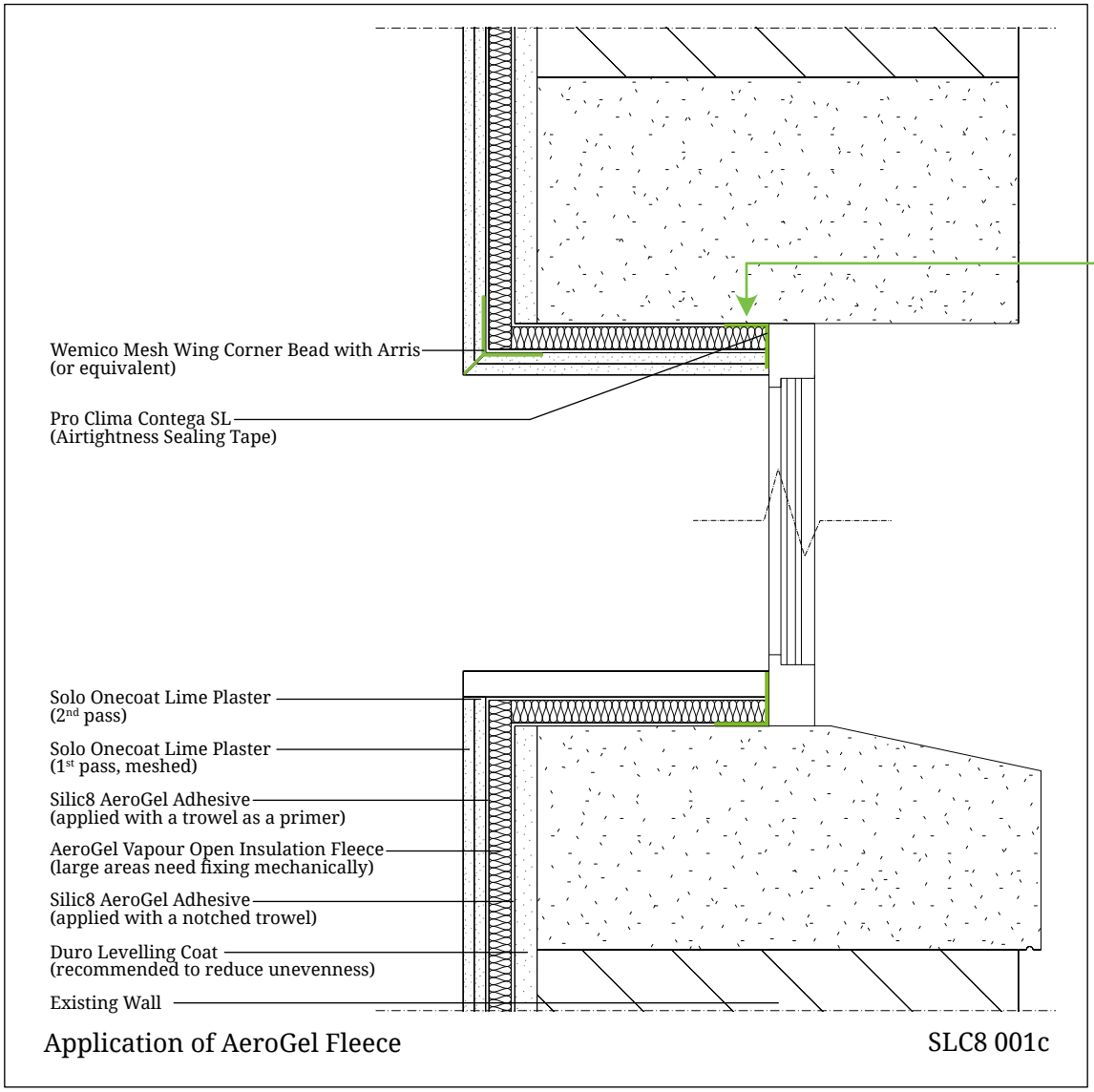
10mm of insulation in the reveals and head is more effective at saving energy than doubling the main insulation on the wall.

It is vital that insulation and air-tightness tape is fitted to the window reveals, heads and sills to prevent the formation of condensation and subsequent mould growth on internal surfaces.

Architectural Details - With Notes

Drawing Title
Application of AeroGel Fleece

Drawing No.
SLC8 001c

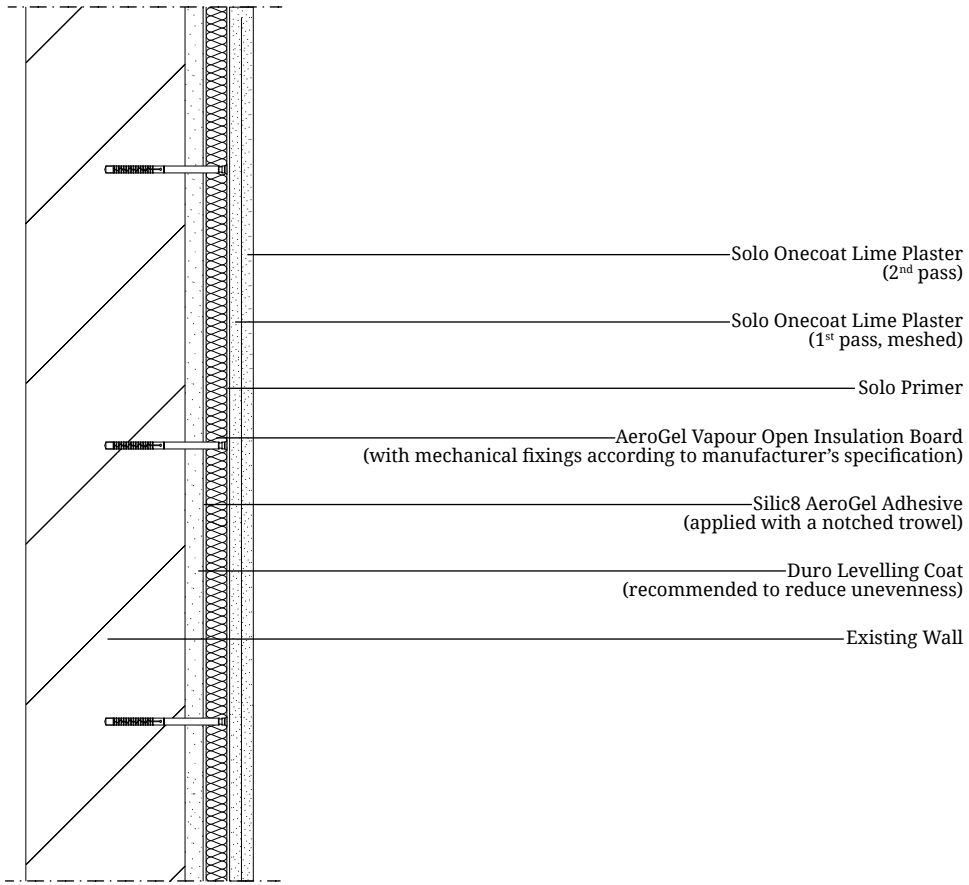


It is vital that insulation and air-tightness tape is fitted to the window reveals to prevent the formation of condensation and subsequent mould growth on internal surfaces.

Architectural Details - With Notes

Drawing Title
Applying AeroGel with Rigid Carrier Board

Drawing No.
SLC8 001d



Applying AeroGel with Rigid Carrier Board SLC8 001d

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Issue Date: 24/10/2023