

Warm Wall Duo

The Future of Increased Energy Efficiency



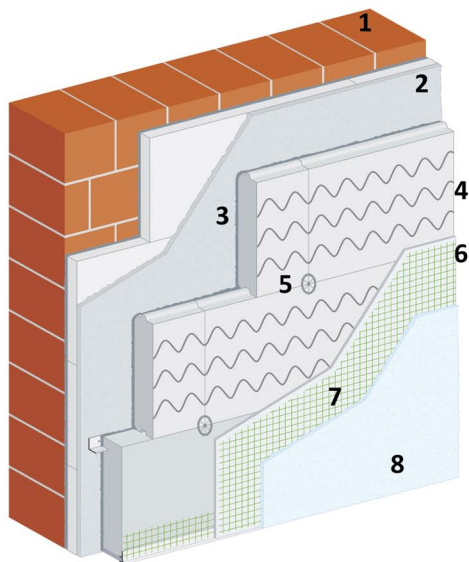
Warm Wall Duo

OVERCLADDING SYSTEM



Warm Wall Duo from Knauf Marmorit is the next stage development in thermal efficiency. As part of the Knauf Marmorit research and development program the need to thermally upgrade existing thermally upgraded properties is becoming ever more important. Warm Wall insulation systems have been used extensively for over 20 years and the early systems now do not meet the ever more demanding thermal value requirements.

Warm Wall Duo from Knauf Marmorit is the *ANSWER*...



- 1 Existing Substrate
- 2 Existing Insulation System
- 3 Warm Wall Duo Adhesive 10mm
- 4 New Warm Wall Insulation Board
- 5 Thermal Fixings
- 6 SM700 Reinforcing Mortar 5mm
- 7 Fabric Reinforcing Mesh
- 8 Topcoat Render



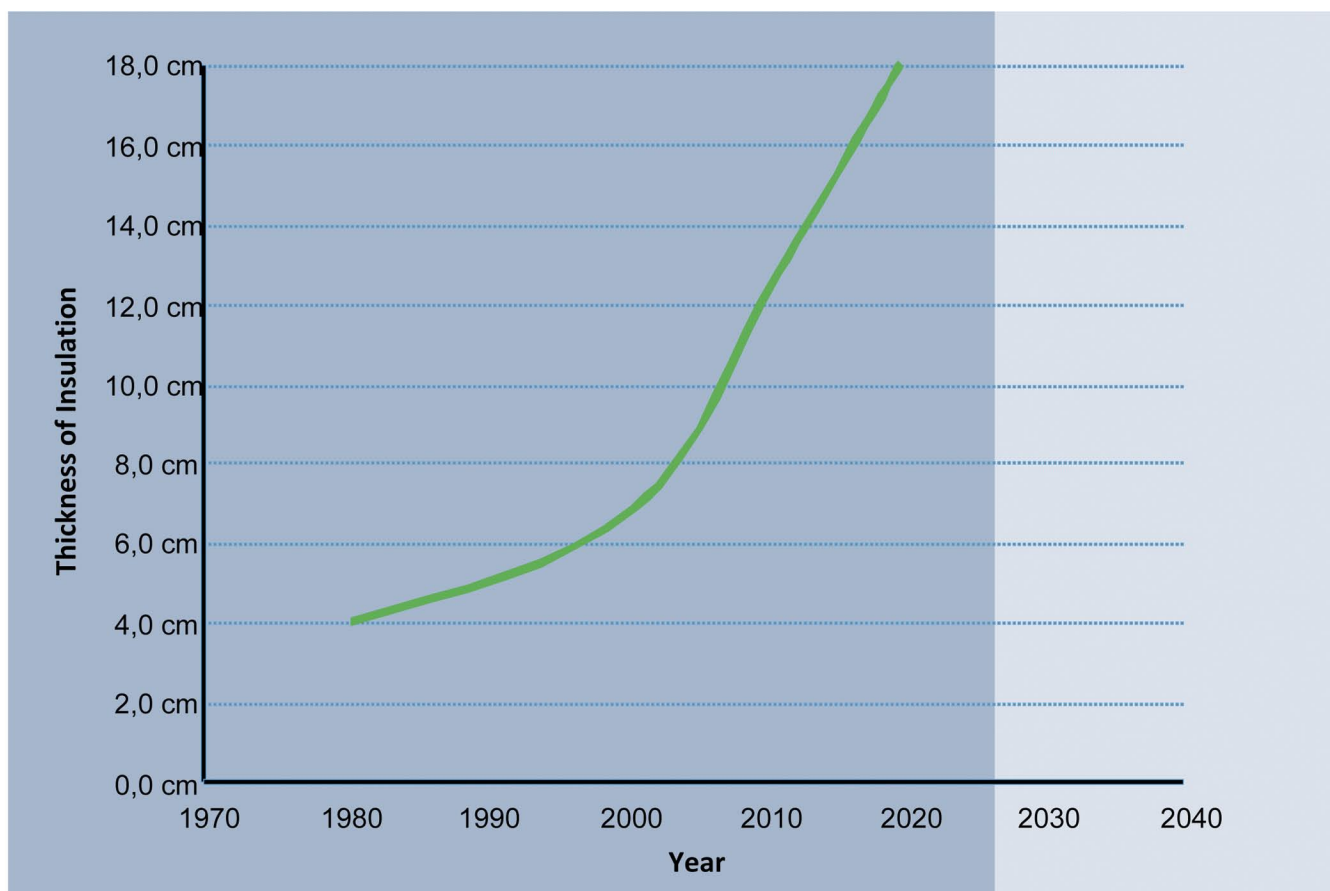
Ensuring Sustainability

Warm Wall Duo



The original External Wall Insulation systems that were applied over 20 years ago had an average thickness of 40mm. With subsequent development of the systems and the regulations, the industry has seen this risen to a modern day requirement of approximately 110mm, based upon Expanded Polystyrene and Mineral Fibre Insulation. With the commitment to increasing thermal efficiency and reducing carbon emissions, we could be looking at thicknesses of 180mm within the next decade...

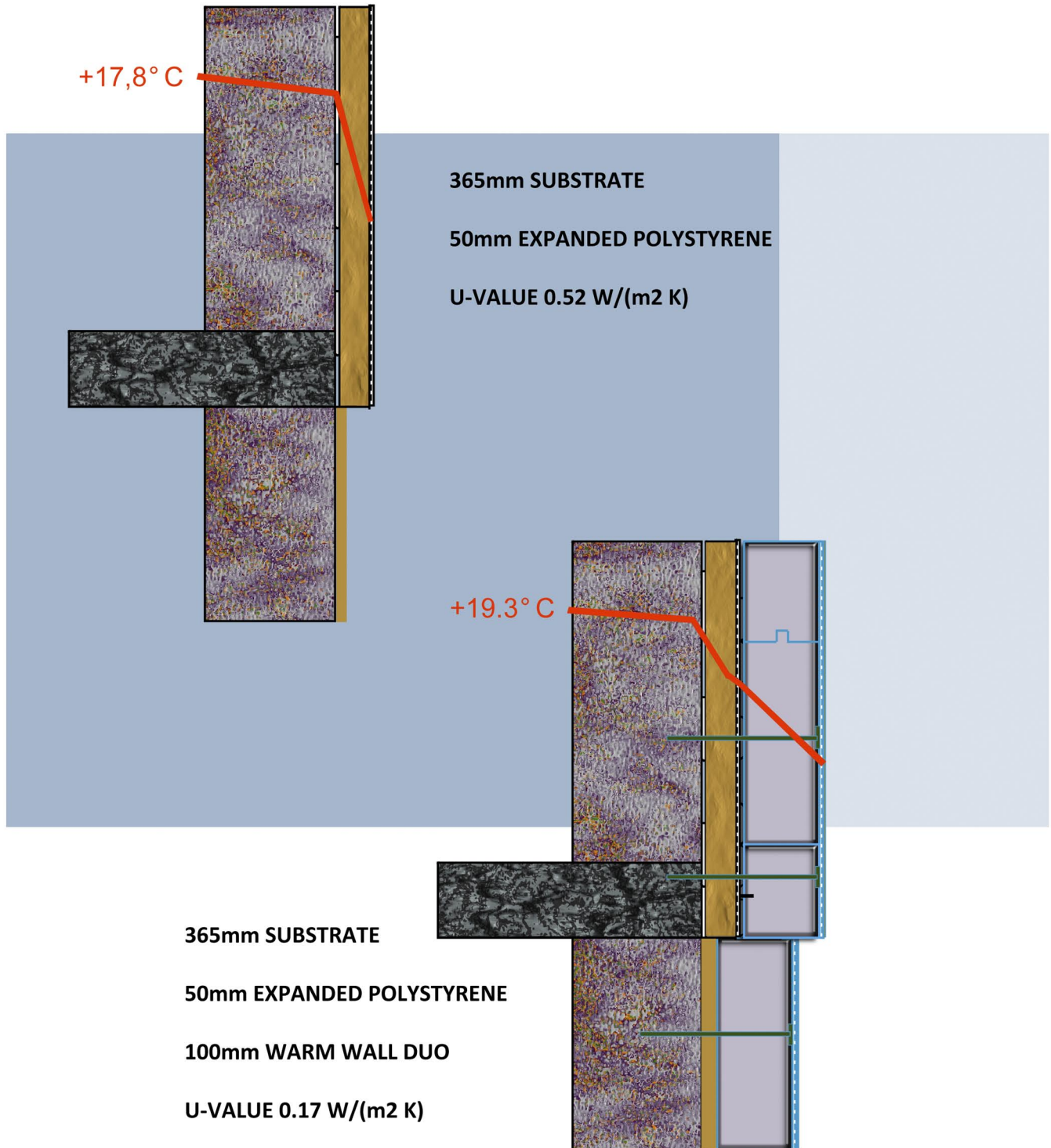
AVERAGE THICKNESS OF EXTERNAL WALL INSULATION SYSTEMS



Warm Wall Duo



BUILDING PHYSICS



Warm Wall Duo - Application



1 Set out line and level for starter track



2 Fix 1st Quix starter track profiles



3 Fix 2nd Quix starter track profiles



4 Apply Warm Wall Duo adhesive to the back of the starter panel



5 Apply the Quix starter profile to fixed track profiles



6 Apply Quix drip bead to a true and straight line on the lower edge of the polystyrene board - Alternative method for this is to use a standard Marmorit starter track and fix through to the substrate. Please consult the Marmorit technical department



8 Apply Warm Wall Duo adhesive to a 10mm thickness



Alternatively apply the Warm Wall Duo adhesive by Machine



Starting at the bottom of the building apply the boards in a stretcher bond



9 check alignments of the boards and that there are no vertical joints

Warm Wall Duo - Application



Fix the boards at 4 fixings per sqm for thicknesses up to 60mm. Over 60mm 5 fixings per sqm



Apply SM700 mortar by hand or machine to a thickness of 5mm



Rule with a straight-edge or similar to a level background



Flatten out to accept the topcoat render



Trowel into the fresh mortar a layer of fabric reinforcing



Use a spatula or similar to flatten out the mesh



Trowel the mesh just below the surface of the mortar and level out



Use the black guide lines on the mesh to establish the required 100mm overlap



Apply Quarzgrund primer for mineral topcoats or Finesse colour topcoats



Apply the primer with a roller or brush and leave for 12 hours to dry



Trowel on the topcoat to the thickness of the specified grain



Texture the finish with a plastic trowel or similar to the required finish

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SUMMARY INFORMATION

Existing insulated properties that do not meet the current / future standards can be easily upgraded with no disruption to the occupants.

Warm Wall Duo demonstrates that the system is sustainable and that there is no need removal or replacement of an old system.

Warm Wall Duo can also be used over any system to improve or regenerate the appearance.

The system has a German Approval, Number Z 33 49 981



Warm Wall Duo Overcladding System



Because Everyone wants a Warm Wall...

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