



GRAINTO
CONSTRUCTION CHEMICAL

GRAINTO CONSTRUCTION CHEMICALS & SOLUTIONS

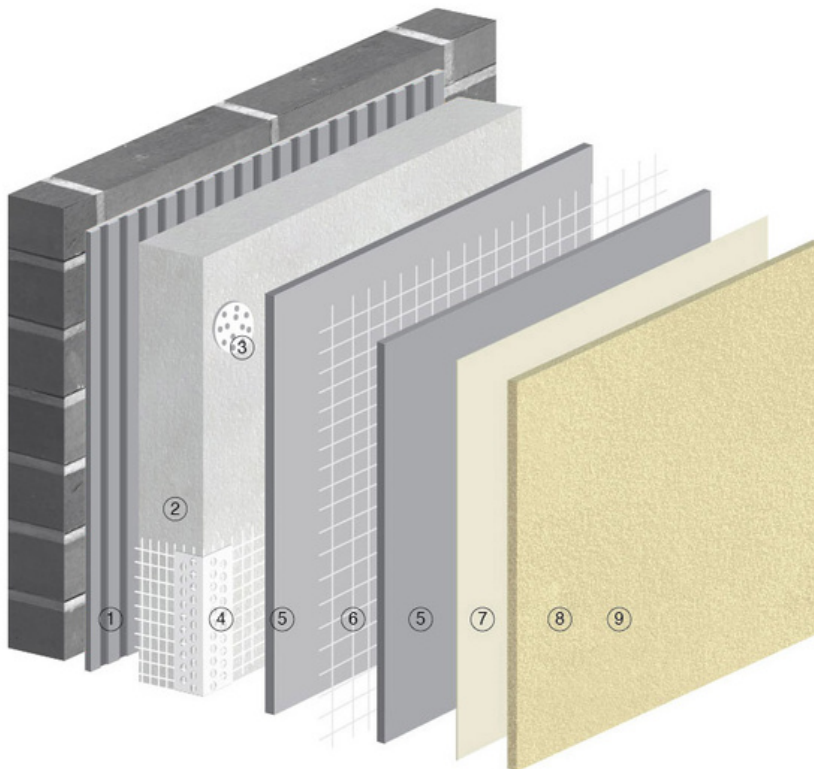
Exterior Insulation & Finished System

Grainito EIFS System is an energy efficient thermal wrapping applied to the exterior surface of the building. The system is finished with a long life, decorative and protective coating system.

The use of Grainito EIFS System can substantially reduce heating or cooling cost and also allows for the use of lower specification heating system. Grainito is an energy efficient system, it also reduces greenhouse gas emissions

GRAINTO EIFS System:

- Graintofix Adhesive
- insulation Board
- Mechanical Fastener
- GraintoBond DP (Dry Powder)
- Fiberglass Mesh
- Decorative Finish (Texture Coating)



291-C1 Awt Phase 2 Lahore



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BENIFITS:



Grainito EIFS System wraps the exterior of the building in an energy efficient thermal blanket, which reduces the heat transmission up to 55% compared to un-insulated structure. Un-insulated walls are one of the largest heat absorber.

DESIGN FLEXIBILITY:



the use of EIFS System introduces substantial design, flexibility. As the insulation is placed on the outer surface, the use of cavity wall structure could be avoided. This allows for the use of various alternative wall designs such as steel frame, precast concrete, cast-in-situ concrete structure.

RESISTANCE TO FADING, CHALKING, YELLOWING:



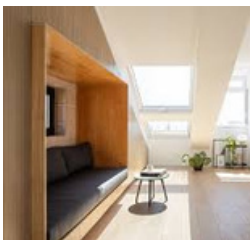
EIFS System will outperform other insulation options by maintaining its original appearance overtime. This system is finished with acrylic and silicon coating hat can with stand against extreme climatic conditions

CONDENSATION CONTROL:



Using an insulation layer of outer surface make good building sense particularly in cold humid climates. It eliminates the problem caused by the ingress of water vapor and associated condensation which can cause problems when insulation is installed on the inner surface

INCREASED INTERIOR FLOOR SPACE:



Using an exterior insulation system allows for better use of inner floor space. The interior wall thickness can be reduced by as much as 100mm allows for an increase in floor space of up to 4%

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METHOD OF APPLICATION:

PROFILE INSTALLATION:



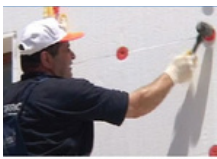
- Fix bearing profile at 50 cm intervals, start 25 cm above ground level.

FIXING INSULATION BOARD:



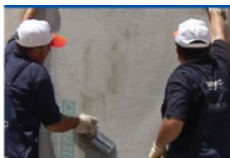
- Spot method (5kg/m^2) Used on uneven substrates. Apply GraintoFix Adhesive to the external edge and 5-6 inner spot of the back side of the insulation board, ensuring to cover 40% of the surface area Used on even surfaces
- Notched trowel method (4kg/m^2) used on even substrates. Apply GraintoFix Adhesive to the entire back surface at the insulation board (Allow to dry it for 24 hours)

MECHANICAL FASTENER:



- Mechanical Fasteners are fixed directly through the uncoated board after a minimum of 24 hours
- Fastener should penetrate 4cm into brick or concrete substrate
- A minimum 4-6 fasteners/meter² should be used.
- Fasteners should be made of plastic to avoid thermal bridging

BASECOAT AND FIBREGLASS MESH APPLICATION:



- For corner, use PVC corner profile with 10-15 cm fibreglass mesh to give straight edges fixed with GraintoBond DP
- Apply the coat of GraintoBond DP by hand or spray to an approximate thickness of 2mm and immediately embed the glass fibre mesh into the surface by troweling from centre out to avoid any wrinkles. Achieve the thickness of minimum 1.5 mm (2.5kg/m^2)
- Overlap fibre glass mesh edges by 10cm.
- Apply a further coat of GraintoBond DP to achieve the overall thickness of 3mm (5kg/m^2)
- In high usage areas, such as at ground floor level, 2 layers of Fibre Glass mesh and further coat of GraintoBond DP are used to increase impact resistance

DECORATIVE FINISH:



- Allow the final layer of GraintoBond DP to cure for 72 hours and apply a coat of Grainto Penetrating Primer
- Finally Apply Grainto Texture Coating which comes in different types
 - granule
 - excel
 - granule-sil
 - excel-sil

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SYSTEM SUMMARY

FUNCTION	PRODUCT	KG PER METER SQUARE	THICKNESS
Adhesive	GrainToFix	4-5	2.3mm
Insulation Board	Expanded Polystyrene	0.8	50mm
	Board	1.2	75mm
	Fire Resistance	1.6	100mm
Basecoat	GrainToBond DP	5.0	3.0mm
Fibre Glass Mesh	Glass Fibre Mesh	0.16	---
Primer	Penetrating Primer	0.1	---
Decorative Finish	GrainTo Texture Coating Granule, Excel, Granule Sil, Excel Sil	2.5	1.5mm

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