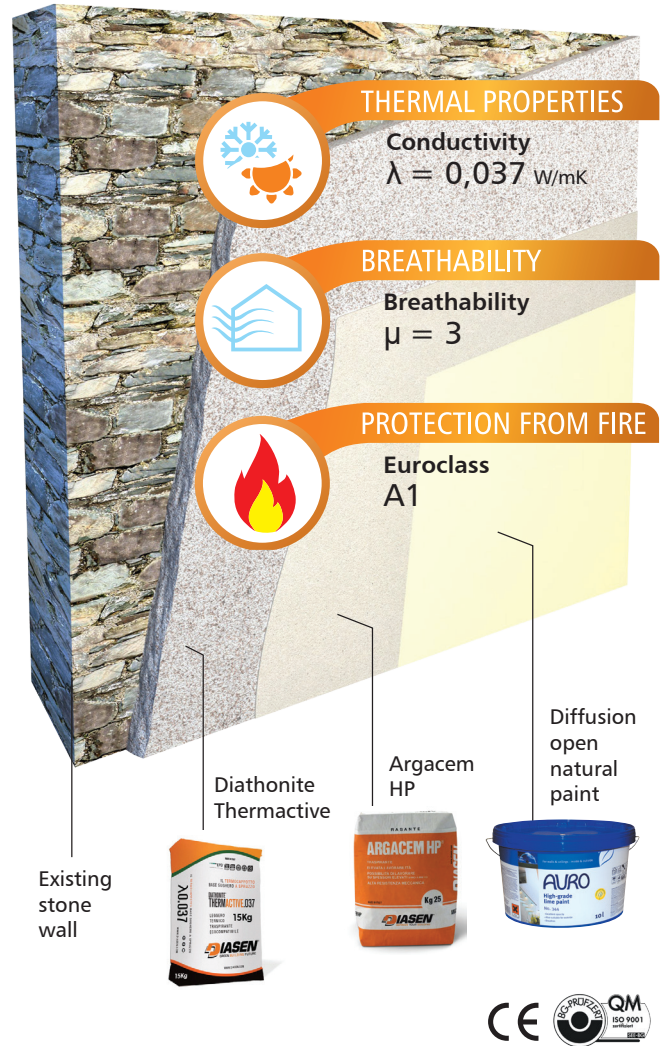


Insulating Solid Walls Beautifully



Based in Italy, Diasen specialises in 'diffusion-open' render systems for internal and external solid stone or brick walls.

Insulating Internal Solid Stone or Brick Walls with Diathonite Eco-friendly, lime, cork based thermal plaster systems



Diathonite Thermactive.037 winner of the renewable product category in the architects choice awards - Architecture & Building Expo 2018

Diathonite is also suitable for external walls.



DECORK
CORK BASED DECORATIVE FINISH

Ask about DeCork – the cork based decorative finish

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BUILDING SYSTEMS
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INTERNAL WALL INSULATION

Cork-Based Sprayable Thermal Insulation

Cork is at the heart of Diathonite's incredible performance and offers breathability, thermal insulation and elasticity. Thermactive.037 also contains pumice and natural hydraulic lime, which provides high breathability, high resistance to moisture, high mechanical strength and antibacterial properties.



Applying 45mm of Diathonite Thermactive to a solid stone wall improves the u-value from 2.26W/m²k to only 0.60W/m²K. The resulting wall (600mm un-rendered externally) will perform approx. 3.77 times better thermally.

MATERIAL PROPERTIES

	Diathonite Thermactive.037
Thermal conductivity (W/mK)	0.037
Fire reaction	Class A1
Vapour permeability value	$\mu=3$
Thermal resistance (R) for 1 cm of thickness (m ² K/W)	0.270
Mechanical strength (N/mm ²)	2.8
Delivery form	15kg bags
Yield	2.60 kg/m ² ($\pm 10\%$) per cm of thickness.
Application:	Can be spray or hand applied

DIASEN
GREEN BUILDING FUTURE

Diathonite
Thermactive .037



FEATURES

- Thermal conductivity .037(W/m²K)
- Excellent insulation – keeps walls warm in winter and cool in summer
- Breathability – Diathonite allows walls to breathe & balances room humidity
- Antibacterial properties prevent the formation of mould and condensation
- 10 times more elastic than traditional plasters, which reduces the risk of cracks

BENEFITS

- Excellent drying times (compared with traditional lime plaster)
- Lightweight - three-times lighter than traditional lime plaster
- Fire protection – Euroclass A1 fire resistance
- Simple solution for thermal bridge mitigation
- Easy hand application for plasterers / faster application with spray machine
- Can be used both externally and internally
- Maintains unique characteristics of walls

Other Products in the Diasen Wall Range



Cork-based Thermal Plaster .045(λ)



Eco-Friendly Plaster with High Dehumidifying and Anti-Salt Properties

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For further information on how to insulate solid walls beautifully contact:

www.ecologicalbuildingsystems.com
info@ecologicalbuildingsystems.com