



UNDER SCREED



LAMBDA BOARD® is the ideal choice for under screed applications in residential and industrial buildings. It is manufactured in a continuous process with a closed cell PIR core bonded to 2 flexible substrates.

With the high compressive strength and excellent dimensional stability LAMBDA BOARD® can be used in a under screed application. The LAMBDA BOARD® offers the best possible thermal properties commercially available, LAMBDA BOARD® does not loose insulation properties during its life span.

Members of:

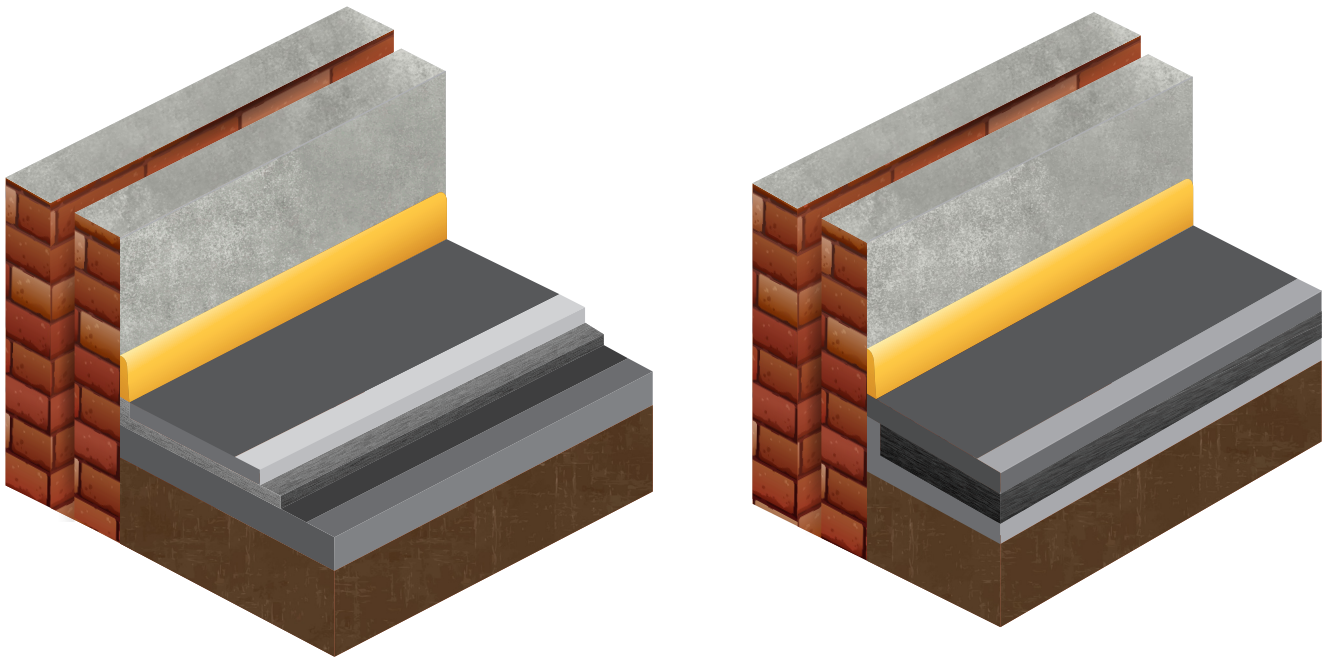


FLOORS | FLOOR INSULATION



LAMBDABOARD® FLOOR INSULATION

Lambdaboard® 30mm thick, 34kg/m³ density, laid over or under a concrete surface bed to meet SANS 10400-XA and SANS 204 requirements for heated floors.



R
VAL

1.25 m² K/W

KEY FACTS

- Thermal insulation of heated ground floors to meet SANS 10400-XA and SANS 204 requirements
- CFC/HCFC free and zero ozone depleting potential
- Over slab floor insulation is suitable for insulating raft foundations
- Moisture resistant, Lambdaboard® will not rot, or sustain mildew
- Lambdaboard® has LTTR (long term thermal resistance)

APPLICATIONS

Insulation for heated or unheated floors in new residential buildings

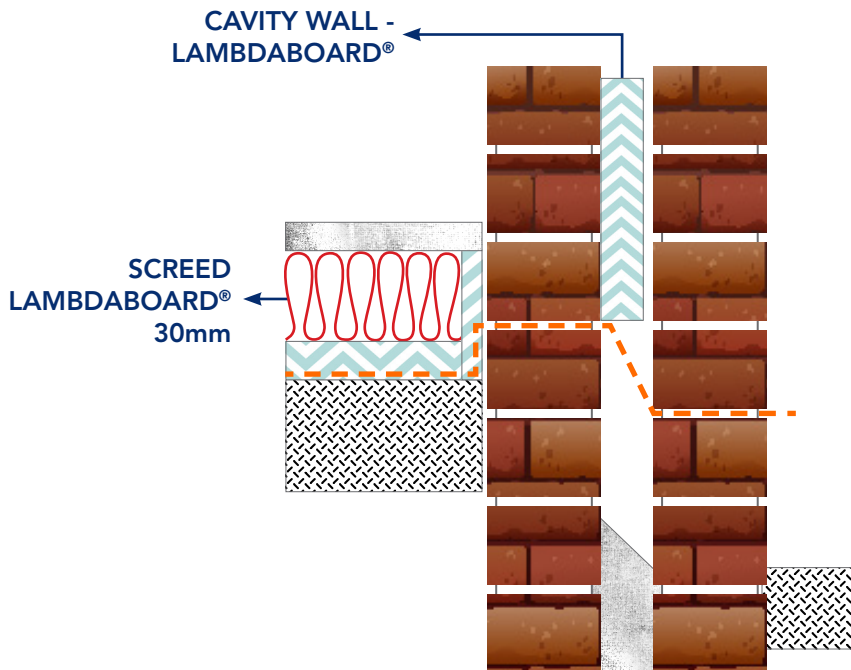
SECTOR

Residential

FLOORS | FLOOR INSULATION



UNDER SLAB INSULATION

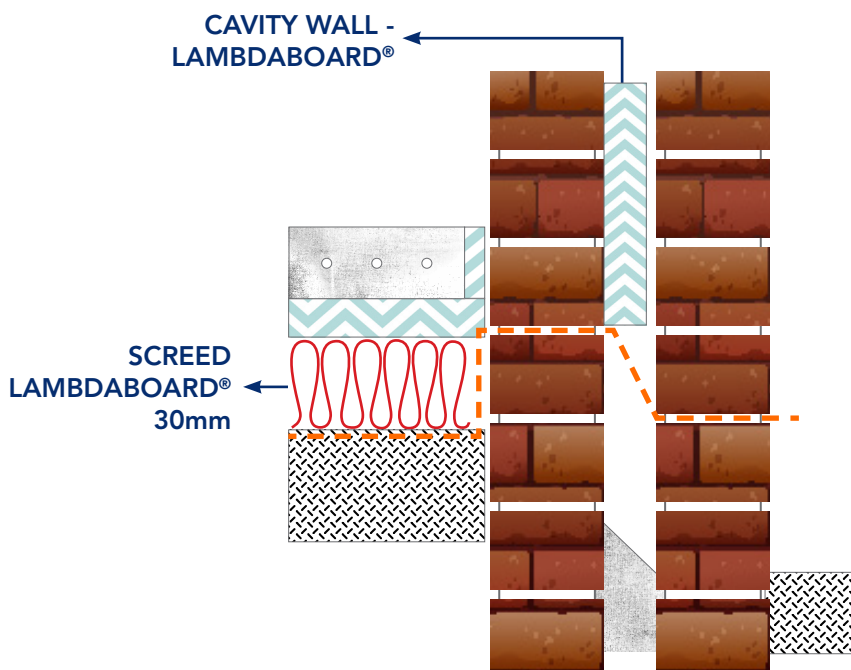


SPECIFICATION BOQ

Lay damp-proof membrane on sand blinding. Lay Lambdaboard® 30mm thick 34kg/m² density on damp-proof membrane with joints tightly butted, staggered and taped. Install concrete surface bed on Lambdaboard®.



OVER SLAB INSULATION



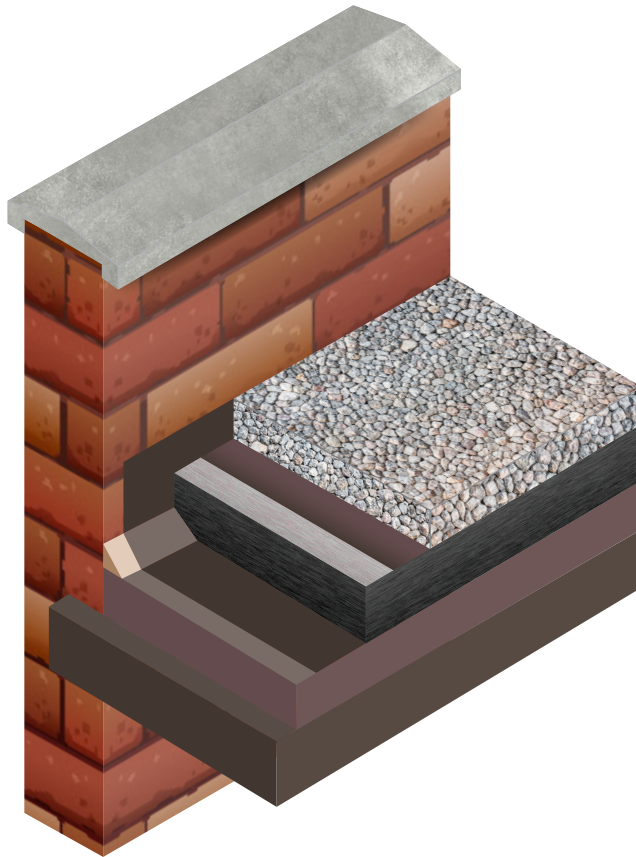
SPECIFICATION

Lay damp-proof membrane on sand blinding. Install concrete surface bed as specified by the Architect. Allow the concrete surface bed to dry. Lay Lambdaboard® 30mm thick 34kg/m² density on a dry concrete surface bed with joints tightly butted, staggered and taped. Install reinforced screed.

ROOFS | INSULATION OF ROOF SLABS

LAMBDABOARD® INVERTED ROOF INSULATION (STONE BALAST)

Lambdaboard® laid over roof slab waterproofing



KEY FACTS

- Low water absorption
- Improves the thermal performance of the roof to meet SANS 10400XA and SANS 204 requirements
- Improves the thermal performance of roof slabs
- Ideal for refurbishments
- Does not reduce floor to soffit height
- CFC/HCFC free and zero ozone depleting potential (ODP)
- Resistant to aging, mildew, bacteria, rot and will not sustain vermin

APPLICATIONS

Insulation of new and existing roof slabs

SECTORS

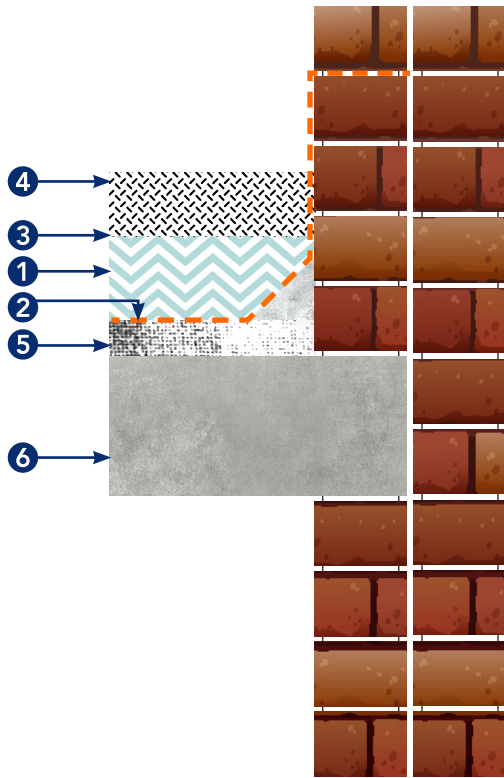
All sectors

PERFORMANCE

Roof insulation to meet SANS 10400-XA and SAN S204 requirements

ROOFS | INSULATION OF ROOF SLABS

LAMBDABOARD® INVERTED ROOF INSULATED



SPECIFICATIONS

Lambdaboard® 30mm thick, 34kg/m² is laid over roof water-proofing. A water permeable filtration layer is laid over the Lambdaboard® and covered with ballast (gravel layer) or concrete paving slabs to prevent flotation and wind uplift. Rainwater outlets should be dual level, capable of accepting water from above both the waterproofing membrane and the insulation layer. Concrete paving should be laid over insulation in area subject to foot traffic.

¹Inserted required thickness

KEY

1. Sagex EPS
2. Water proofing
3. Geo-fabric filtration layer
4. Ballast-gravel layer to prevent wind up lift
5. Screed laid to fall
6. Roof slab

PHYSICAL PROPERTIES OF SAGEX EPS

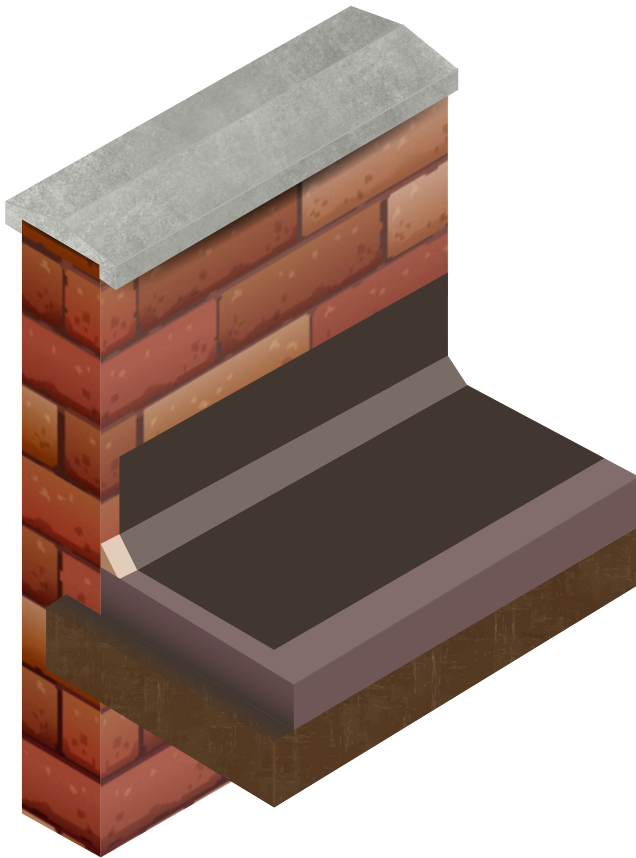
Thermal conductivity (W/mK) (ASTM C518)	Compressive strenght (kPa) - @ 10% deformation	Tensile strenght (kPa)	Water absorption (%)
0.024	225	440	3

DESIGN GUIDELINES

- All joints shall be closely butted together and staggered.
- A water-permeable filtration layer is laid over the Isover Hydroboard
- Install ballast (gravel layer) /paving slabs onto the filtration layer to prevent flotation and wind uplift
- Concrete paving should be laid over insulation in area subject to foot traffic
- Rainwater outlets should be dual level, capable of accepting water from above both the waterproofing membrane and the insulation layer

ROOFS | INSULATION OF ROOF SLABS

LAMBDABOARD® TORCH ON INSULATION



KEY FACTS

- Cost effective
- Homogenous bead distribution gives good workability and predictable performance
- Good workability enables mixed material to be pumped 100m horizontally and 30m vertically
- Mix design variable to produce densities from 200kg/m³ to 1000kg/m³
- Compatible with most finishing products and adhesives
- Lambdaboard® Bitumised kraft laid above screed
- Torch on water proof membrane to be applied directly on to Lambdaboard®
- Lambdaboard® to be mechanically fixed using PV adhesive or bitumised glue or nylon anchor
- If excessive foot traffic - use Lambdaguard® BK for these areas

APPLICATIONS

Thermal insulation torch on

SECTORS

All sectors



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