Resene
Construction Systems

Technical Data Sheet

Product name:

RCS Duratherm

Description:

Duratherm has an XPS Foam board to the core of the product and is coated with fibreglass mesh and a plastered coating. XPS provides optimum insulation for high and low temperatures and reduces energy consumption. XPS features a high compressive strength, low water absorption and outstanding thermal insulation.

Typical Use:

As an overlay to a masonry foundation, installed using PSL AAC Adhesive applied to the foundation wall with a notched trowel.

The exterior of the perimeter insulation should also be protected from impact damage and moisture accumulation with additional layers of plaster (including Hydroplast)

By insulating the perimeter this will give a relative improvement to the thermal performance of the floor slab.

Typically a 100mm floor slab with no insulation and 600mm foundation wall would have an R-Value of around 1.01

By adding on 10mm XPS Insulation with an R-Value of 0.35 you will increase the overall R-Value of the floor slab to approximately 1.43

If you keep a gap of no more than 20mm between the bottom of the cladding and the insulated foundation you will get some thermal loss, this would only reduce the R-Value to around 1.31 still an overall improvement of 0.3 for the addition of 10mm of XPS to the foundation.

Combining this with Underslab insulation (such as 50mm EPS) will yield even larger increases.

Expectation:

- Excellent thermal performance
- High compressive strength
- Highly resistant to water absorption
- Lightweight and easy to install
- Tough and durable, not easily damaged

- Dimensionally stable

Limitations:

To be used as an overlay to foundations. Duratherm should not be left exposed to prolonged sunlight as this will result in surface degradation. Duratherm is easy to handle and install. Ensure the board product is not stored close to open flames or other ignition sources and avoid volatile organic compounds and chemicals such as solvents.

Technical Data:

Material :	100% BASF fresh material
In core xps board density :	32-35KG/m3
Compressive strength :	>300Kpa
Moisture/Water absorption :	<0.5%
Sizes:	2200mmx600mmx33mm
Thermal Resistance:	1.0m2K/W (ASTM C518)
Thermal Conductivity:	0.303W/mK (ASTM C518)

Surface Preparation:

Ensure the surface is clean, sound, dry and free from dust, dirt, grease, mould and lichen.

Environmental and Safety

Ensure that any excess product is disposed off at the appropriate Refuse Stations.

Material Safety Data Sheets are available upon request or access directly from https://reseneconstruction.co.nz/technical-library/safety-data-sheets/