

AIRIUM



LafargeHolcim
QATAR

AIRIUM is a new, fully mineral, thermal insulation technology which can be used for many applications:

Areas of Application

- Floors
- Wall filling
- Roofs and terraces
- Roof cavities

AIRIUM is an innovative, safe, green, durable and affordable alternative to traditional insulation.

Advantages

Efficient insulation

AIRIUM is highly insulating in its lowest density version, reaching a top tier insulation performance level. In term of acoustics, AIRIUM is among the best insulating materials.

Better air quality

No chemicals are added and there is no impact whatsoever on the air quality as AIRIUM is inert. Also, the breathability of AIRIUM and its PH level strongly diminish the risk of mold compared to traditional insulation.

Sustainable insulation

AIRIUM is the future of insulation. It has a lower CO2 footprint over its life cycle compared to other insulation methods as a result of several factors: its high air content, its higher durability (more than 100 years !), its carbonatation property (CO2 is absorbed over time), and its full recyclability. Its high durability also means less worries and less renovation cost over time.

You can build and insulate at the same time

- For rooves and terraces, the sub-screed layer poured with AIRIUM replaces in a single layer traditional two layered systems (often composed of a concrete slope and an insulation layer).
- For wall elements such as concrete blocks filled with AIRIUM, you can to skip or at least put less additional wall insulation layers on site. It means a substantial speed and cost advantage on most applications for home-builders.



It is hassle-free

AIRIUM is foamed at the plant, on site or previously integrated in precast elements. For you, it means less hassle in terms of transportation, storage and handling on site. It is also fully and easily recyclable.

It is easy to use

AIRIUM can fill any shape, cavity or corner. It is either poured in precast elements beforehand or pumped on site with a pump that can also be used for traditional screeds or slabs.

It is an adaptable technology

The density of AIRIUM can be adjusted to your needs and requirements to give you the best compromise between insulating performance and structural resistance.

Features

Sustainable insulation

AIRIUM has a lower CO2 footprint over its life cycle compared to other insulation methods. It is also a fully recyclable material

Insulating efficiency

AIRIUM is highly insulating in its lowest density version (with a Lambda value below 40 mW/m.K.). In addition, home comfort during heat peaks is widely improved compared to traditional insulation as the thermal phase shift of AIRIUM is in average twice as good as with other insulating materials.

Durable

AIRIUM behaves like concrete over time and lasts more than 100 years. Compared to traditional insulation that lasts 50 years or even less (e.g. settling), it makes a real difference.

Non-combustible with a high fire resistance

As it is entirely mineral, AIRIUM has a fire protection class of A1 according to EU standards.

Healthy environment

With AIRIUM, no added chemicals against fire are needed and there is no impact whatsoever on the air quality as AIRIUM is inert. Also, the breathability of AIRIUM and its PH level strongly diminish the risk of mold compared to traditional insulation.

Technical Support

For more information on Airium design and application our local team is available to discuss your requirements.

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