

An aerial photograph of a construction site on a flat roof. Two workers wearing orange safety vests and blue hard hats are visible. One worker is in the upper center, bent over, and the other is in the lower right, kneeling. The roof surface is dark and textured. A metal railing runs along the left edge of the roof. The text 'REUSABLE ROOFS' is overlaid in the center, with 'REUSABLE' in green and 'ROOFS' in white.

REUSABLE ROOFS

a journey to a circular future



ONZE ZOEKTOCHT

Actieve daken / Klimaatdaken



Circulariteit



Multifunctionaliteit



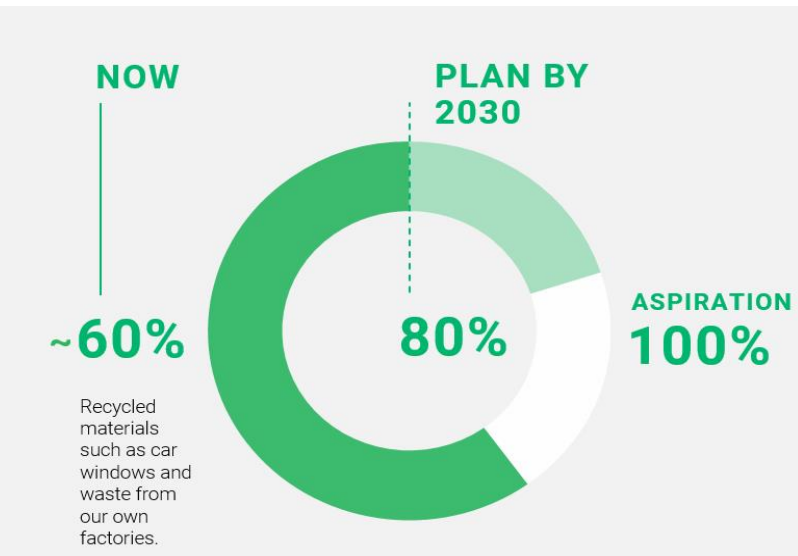
Bouwtechnische
duurzaamheid



Minder CO2-
uitstoot

**A SUSTAINABLE
MATERIAL**

FOAMGLAS: DE ECOLOGISCHE ISOLATIE



RENEWABLE ELECTRICITY

All Foamglas factories use

100% GREEN ELECTRICITY

Tessenderlo, Belgium

Kláštorec, Czech Republic

HOW IT WORKS

ELECTRIC MELTING

We use electric melters for melting the glass at both of our factories in Europe. This reduces CO₂ emissions significantly.

A PRECISE PROCESS



FOAMGLAS® Insulation is made from glass

It contains >60% selected recycled content

plus sand, limestone and other natural materials

It is VOC-free and contains no volatile substances



FOAMGLAS IS BUILD TO LAST



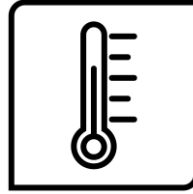
100%

Impermeable



A1

Incombustible



100 years

Reference service life*



100%

Vapour-tight



Up to 1600 kPa

Compressive strength

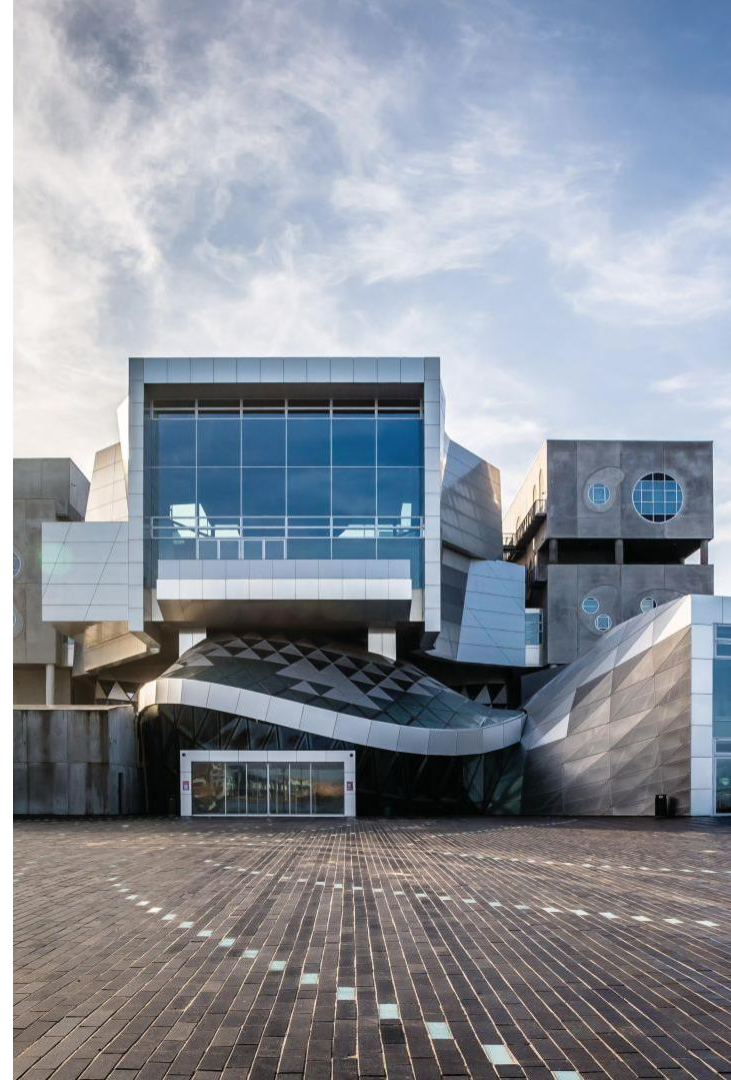


Sustainable

Insulation



* stated in EPD-PCE-20200300-IBB1-EN published by Institut Bauen und Umwelt e.V. (IBU)



HUIDIGE SITUATIE

$$\text{Circular Value Index} = \frac{\text{Residual value}}{\text{Cost of reuse}} \times \text{Risk}$$

$$\frac{75}{10,25} * 1 = \mathbf{7,32}$$



THE CIRCULAR VALUE INSTITUTE

Supported by

VLAIO



Vlaanderen
is ondernemen



Laudes
Foundation

ARUP



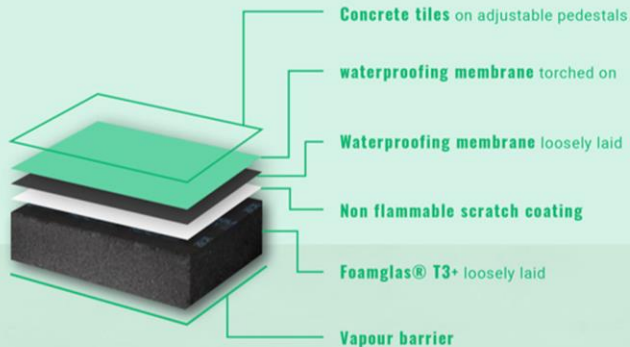
THE REUSABLE ROOF

RE-USABLE ROOF SOLUTION

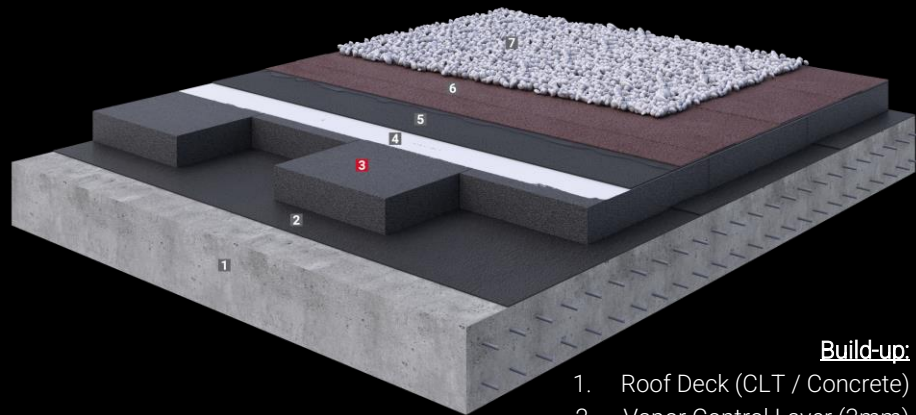
THE ANATOMY OF



BY FOAMGLAS®



INSTALLED WITHOUT GLUE = EASY TO DISMANTLE AND REUSE



Build-up:

1. Roof Deck (CLT / Concrete)
2. Vapor Control Layer (3mm)
3. Foamglas loosely laid
4. PC 74 A1 protective Coating
5. First layer of bituminous waterproofing membrane loosely laid. (3mm)
6. Second layer of bituminous waterproofing membrane is torched on. (4mm)
7. Finish





WHY FOAMGLAS®?

CIRCULAR POTENTIAL

19.6.2024

Over and over again

FOAMGLAS® cellular glass is made of glass, and glass can be recycled over and over again. FOAMGLAS® insulation can be recycled into raw material or reused. We are piloting take-back solutions together with our customers and developing ways to drive circular solutions forward.





CHALLENGE US

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