

## Data Sheet

# CarbonCapture Flat Roofing Membrane



**CarbonCapture**<sup>®</sup>  
Flat Roofing Membrane

CO2 neutralising torch-on flat roofing overlay membrane

### Use

- Torch applied cap sheet for single layer or multilayer traditional built-up roofing systems
- For both new build and refurbishment projects

### Features & Benefits

- Capacity to capture 1.75kg of CO2 per m2 from rainfall
- $4H_2O + 4CO_2 > Mg_2SiO_4 + 4CO_2 + 4H_2O > 2Mg^{2+} + 4HCO_3 + H_4SiO_4$
- Robust 5mm thickness (over the selvedge)
- Reinforced with non-woven polyester strand + glass fibre mat
- Minimum use of a free flames on the roof
- No stress caused to the reinforcement through contact with torch flames
- fully bonded elastic adhesion
- Quick and easy application
- High anti-aging capacity with 20-year guarantee
- Waterproofing membrane is 100% recyclable

### Materials

- Manufactured in high-performance Amorphous Poly-Alpha-Olefins (APAO) modified bitumen.
- Opaque green olivine granular finishing layer that is 100% naturally occurring
- Partly use recycled raw materials
- Carboncapture granular finish can be applied to out standard range of torch on flat roofing membranes

### Installation Guide

- Fully bonded by torch-on application.
- The surface must be smooth, flat, without non-adherent zones, clean, dry.
- Installed to minimum slope 1.5%.
- Carefully clean the substrate (if and where necessary use a pressure washer).
- Some applications may require a coat of bituminous primer and make sure the primer is completely dry before proceeding.
- Position the membrane starting from the lowest point.
- Stagger sheets avoiding overlaps against the roof fall.
- End laps must be a minimum 150mm and side laps 100mm.
- A continuous bead of compound should be visible at all laps/seams after application.
- For vertical upstands the minimum height must be minimum 150mm.
- The vertical membrane sheet must lap onto the horizontal sheet by at least 100mm.
- Special precautions must be taken during application of bitumen membranes membranes when ambient temperatures are below +5 °C.

### Product Codes

Description	Thickness	Width	Length	R/Pallet Qty
Carbon Capture Flat Roofing Membrane	5mm	1m	7.5m	20

### Technical Specification

Characteristics	Standard	Unit	Value
Roll size		M <sup>2</sup>	7.5
Max tensile force (Longitudinal)	EN12311-1	N/50mm	900
Max tensile force (Transverse)	EN12311-1	N/50mm	700
Elongation at break (Longitudinal)	EN12311-1	%	50
Elongation at break (Transverse)	EN12311-1	%	50
Resistance to tearing (Longitudinal)	EN12310-1	N	160
Resistance to tearing (Transverse)	EN12310-1	N	160
Cold flexibility	EN1109	°C	-25
Thermal conductivity		W/m <sup>2</sup> K	0.2