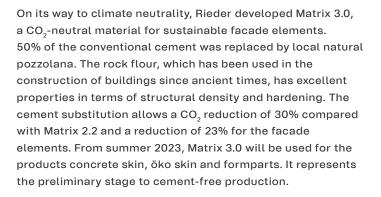
## Rieder Matrix 3.0

The world's first CO<sub>2</sub>-reduced glassfibre reinforced concrete





CO

Rethinking building skins

WITH NATURAL POZZOLANS







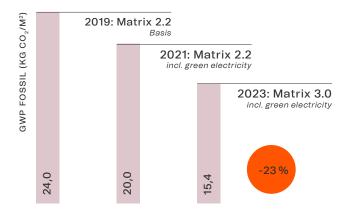
First implementation on the Rieder Campus in Maishofen

## Characteristics

MATERIAL	fibreC Matrix 3.0 CO <sub>2</sub> footprint Produktionsverfahren	$CO_2$ -reduced concrete matrix: Replacement of 50% of the cement with natural pozzolans -30% $CO_2$ versus Matrix 2.2, GWP fossil: 15.4 kg $CO_2$ / m <sup>2</sup> extrusion
	Reinforcement Health standard	glassfibre textile fabric approved by the building authorities free of crystalline silica (< 1 M%)
PRODUCTS	concrete skin (large size) öko skin (concrete slats) formparts (formed elements)	1200 x 2500, 3100, 3600 x 13 mm 147 x 1800 mm; 70 - 302 x 700 - 2500 x 13 mm max. length 3600 x 13 mm
VERSIONS	Colours phase 1 Colours phase 2 Surfaces Textures	pine green, anthracite chrome, liquid black, terra, oak, walnut, ebony, terracotta, oxide red, burgundy, merlot ferro, ferro light, matt standard, slate (more on request)
PROPERTIES	Surface protection Dead load/weight per unit Classification fire behaviour Fastening visible	without surface protection (hydrophobic coating on request) 26 - 31,5 kg / m <sup>2</sup> A1 – non-combustible, A2-s1,d0 – non-combustible (EN 13501-1) rivets, screws

Fastening concealed bonding, undercut anchor

## **Ecological indicators**



Key figure	Unit	Cradle to Gate A1-A3
GWP Global warming	kg CO <sub>2</sub>	15,4
PENRT Non renewable energy	MJ/m <sup>2</sup>	168,9
CO <sub>2</sub> -savings cement	%	30
CO <sub>2</sub> -savings panel	%	23

