LinCrete

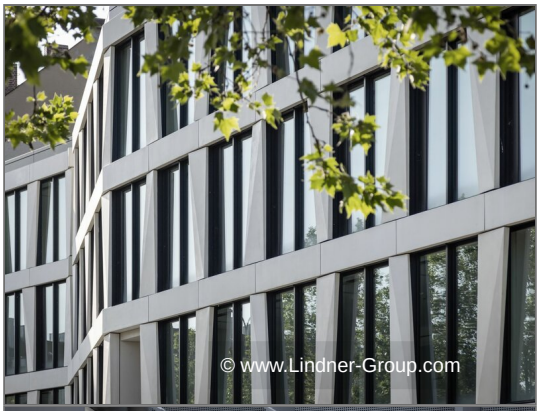
Glass Fibre Reinforced Concrete (GFRC)

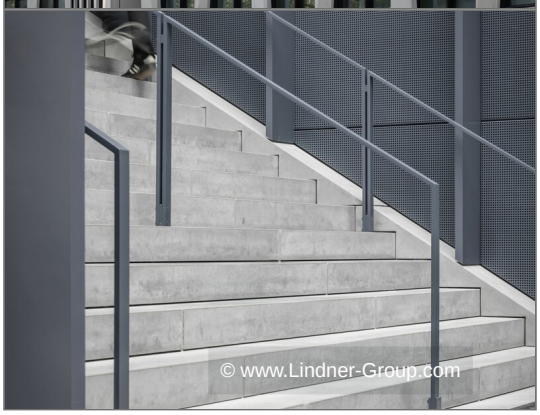
LinCrete is the proof that this combination works. By combining alkali-resistant glass fibres with a concrete matrix, fibre-reinforced concrete enables the creation of unique shapes and geometries that would be unimaginable with conventional concrete. Particularly for cladding and elements that require high aesthetic standards in terms of complexity in 3D shapes, surfaces, and colours, LinCrete fibre-reinforced concrete stands out. This results in a wide range of possible applications for various construction projects. LinCrete is used as wall cladding in tunnels and interior spaces, public furniture, seating, fountains, fireplaces, terracotta replicas, brick cladding, and more. We offer project-specific solutions made from fibre-reinforced concrete, tailored to the ideas and desires of our clients.

- Versatile design and styling possibilities
- Various fastening options through project-specific substructures
- Consulting, planning, and development of customer-oriented solutions
- Project-specific and customized creation of delivery schedules
- Ongoing quality monitoring according to DIN-EN standards
- Member of the International Association of Glass Fibre Concrete Producers (GRCA) and the Fibre Concrete Association (FVF)

Examples for areas of application

Businesses, Recreation and Culture: Banks, Shopping Centres, Cinemas and Theatres, Concert Halls, Museums, Public Swimming Pools, Gymnasiums, Stadiums, Sales Areas, Places of Assembly
Transport: Train Stations, Airports
Work: Office buildings
Public Institutions: Court Houses, Government Buildings
Hotels and Gastronomy: Hotels and Resorts
Refurbishment
Tunnel





Technical details

Dimensions

Length (L)	100 - 6000 mm
Width (B)	100 - 6000 mm
Joint width (F)	10 mm

Width: Standard up to 3,000 mm* **Length:** Standard up to 6,000 mm* **Material thickness:** Min. 12 mm for facade elements / typical outdoor applications **Joint width:** Min. 10 mm for individual operation / disassembly

Lindner Isoliertechnik & Industrieservice GmbH
Bahnhofstraße 29 | 94424 Arnstorf | Germany
Phone +49 8723 20-3670
E-Mail isoliertechnik@Lindner-Group.com | www.lindner-group.com

** Please note that elements with larger dimensions can be produced (e.g. length up to 11,000 mm). However, large dimensions can lead to unwieldy and therefore uneconomical elements if the appropriate logistics are not available on the transport routes and on site.*

Acoustics

Room acoustics

ISO 11654	ISO 11654		C
ASTM C 423	ASTM C 423	NRC	0.70
Evaluated Sound Absorption Coeff.	ISO 11654	α_w	0.60

Fire protection

Building material class	EN 13501-1	A2 - s1,d0

Static

Statics

Seismic safety	possible

Safety

Security

Blast pressure	150 kPa

Earthquake resistance: Earthquake-resistant design available on request **Explosion protection:** Average explosion pressure of 150 kPa with a minimum material thickness of 6 mm

Sustainability

Declarations

Product Self-Declaration	Self-Declaration according to ISO 14021

Additional equipment

Lindner pin channel hanging substructure	With profiles embedded in the GRC element
Recessed anchor fixation	Kombinierbar mit verschiedenen Unterkonstuktionssystemen (z.B. für Faserbeton zugelassene Agraffenprofilunterkonstuktion)
Free-standing with a floor-mounted framework	Unterkonstruktionsvariante
Self-supporting without a substructure	e.g. as a base element on the ground

Lindner Isoliertechnik & Industrieservice GmbH
Bahnhofstraße 29 | 94424 Arnstorf | Germany
Phone +49 8723 20-3670
E-Mail isoliertechnik@Lindner-Group.com | www.lindner-group.com

Lindner wall cladding or partition wall stud substructure	Unterkonstruktionsvariante
Linder Unterkonstruktionssysteme für Decken	Unterkonstruktionsvariante
Projektspezifische Lindner Sonder-Unterkonstuktionen	Unterkonstruktionsvariante

Variants

Oberflächen

Surface	• sandgestrahlt (Bearbeitungsgrade: leicht, medium, stark oder individuell nach Vereinbarung) • säure-geätzt • geschliffen • poliert • lackiert (mit handelsüblichen Betonfarben lackierbar) • bedruckt (siehe LinCrete print) • Putzoberfläche • Funktionsbeschichtungen (z.B. hydrophobiert (wasserabweisend beschichtet und/oder tiefen- bzw. massenhydrophobiert), Anti-Graffiti-Beschichtung)

Farbtabelle – Standardtöne

Surface	• Schiefergrau • Pastellviolett • Graubeige • Beigegrau • Beige • Gelbgrau • Resedagrün • Orangebraun

Gestaltungs- und Strukturmöglichkeiten

Surface	• Bodenfliesen • Rippenoptik • Perforation • Rauputz • Feinputz • Holzoptik • Stein-/Terrazzo-Oberfläche • Klinkeroptik

Certification

Certificates

Lindner Isoliertechnik & Industrieservice GmbH
Bahnhofstraße 29 | 94424 Arnstorf | Germany
Phone +49 8723 20-3670
E-Mail isoliertechnik@Lindner-Group.com | www.lindner-group.com

GRCA	Internationaler Verband der Glasfaserbetonhersteller
FVF – Fachvereinigung Faserbeton e.V.	Zusammenschluss von Glasfaserbetonhersteller aus Deutschland, den Niederlanden, Österreich und der Schweiz

Lindner Isoliertechnik & Industrieservice GmbH
Bahnhofstraße 29 | 94424 Arnstorf | Germany
Phone +49 8723 20-3670
E-Mail isoliertechnik@Lindner-Group.com | www.lindner-group.com