# LinCrete

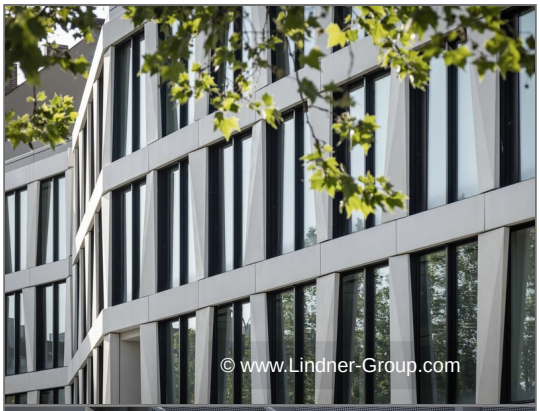
## Glass Fibre Reinforced Concrete (GFRC)

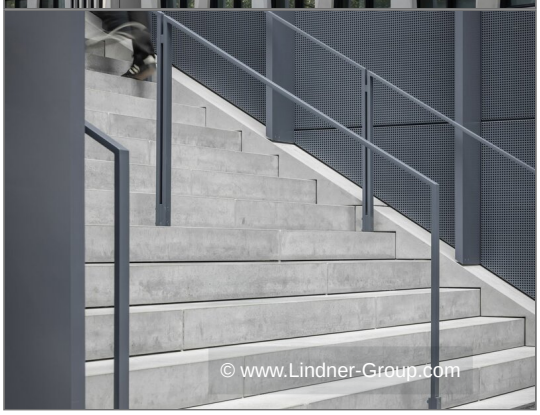
LinCrete is the proof that this combination works. By combining alkali-resistant glass fibres with a concrete matrix, fibre-reinforced concrete enables the creation of unique shapes and geometries that would be unimaginable with conventional concrete. Particularly for cladding and elements that require 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:** Sales Areas, Places of Assembly
**Transport:** Railway Stations, Airports
**Work:** Office Buildings
**Public Institutions:** Courts and Correctional Facilities, Town Halls, Government and Administrative Buildings
**Hotels and Gastronomy:** Hotels and Resorts
**Refurbishment and Renovation**
**Tunnels and Bridges**




## Technical details

| Dimensions | |
|---|---|
| Length (L) | 100 - 6,000 mm |
| Width (B) | 100 - 6,000 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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** 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**

| | | | |
|---|---|---|---|
| Sound Absorber Class | ISO 11654 | | C |
| ASTM C 423 | ASTM C 423 | NRC | 0.70 |
| Evaluated Sound Absorption Coefficient | ISO 11654 | $\alpha_w$ | 0.60 |

## Fire protection

**Building Material Class**

| | | |
|---|---|---|
| Building Material Class | EN 13501-1 | A2 - s1,d0 |

GFB-Element inkl. Akustikvlies und Mineralwolle

## Static

**Static**

| | |
|---|---|
| Seismic Safety | possible according to DIN EN 1998-1 |

## 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 | A self-declaration in accordance with ISO 14021 is available. This contains extensive environmental information for planning, tenders and building certifications (LEED, DGNB, EU taxonomy). |

## Additional equipment

**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 |


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| | |
|---|---|
| Self-supporting without a substructure | e.g. as a base element on the ground |
| Lindner wall cladding or partition wall stud substructure | Unterkonstruktionsvariante |
| Linder Unterkonstruktionssysteme für Decken | Unterkonstruktionsvariante |
| Projektspezifische Lindner Sonder-Unterkonstuktionen | Unterkonstruktionsvariante |

## Variants

### Oberflächen

- 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

- Schiefergrau
- Pastellviolett
- Graubeige
- Beigegrau
- Beige
- Gelbgrau
- Resedagrün
- Orangebraun

### Gestaltungs- und Strukturmöglichkeiten

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

## Certification

### Certificates

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


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