



LinCrete light

Glass Fibre Reinforced Lightweight Concrete

With LinCrete light, a lower density and thinner wall thickness (minimum 4mm) can be achieved due to the specially composed concrete matrix and an increased fibre content, compared to our conventional LinCrete product. The resulting weight savings are particularly significant for interior and shipbuilding applications. At the same time, stability and design freedom in terms of shape, surface, and colour are maintained. The substructure is defined project-specifically and adapted to the respective installation situation. Due to the reduced weight, handling and assembly of the GFB elements on construction sites are also simplified.

- Versatile design and styling options
- Filigree appearance
- Reduced weight with high stability
- Various fastening options through project-specific substructures
- Consulting, planning, and development of customer-oriented solutions
- Project-specific and tailored creation of delivery schedules
- Continuous 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: Concert Halls, Theatres and Opera Houses, Museums and Galleries, Places of Assembly, Cinemas and Multiplex Theatres, Stadiums and Arenas, Banks, Sales Areas

Public Areas: Exterior Areas, Entrance Areas, Escape Routes

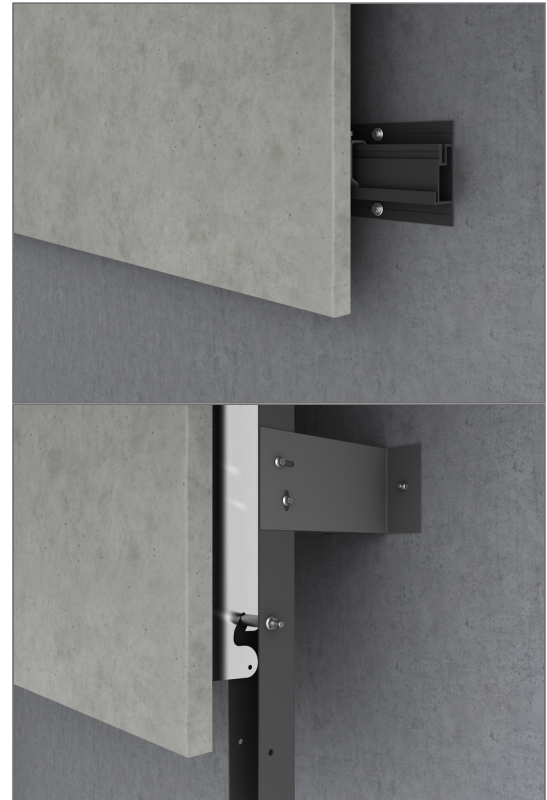
Transport: Airports, Railway Stations

Work: Office Buildings, Assembly Rooms

Public Institutions: Courts and Correctional Facilities, Town Halls, Government and Administrative Buildings

Hotels and Gastronomy: Hotels and Resorts

Residential building



Technical details

Dimensions

| | |
|------------|----------------|
| Length (L) | 100 - 3,500 mm |
| Width (B) | 100 - 3,000 mm |

- Dichte: 800 - 1.800 kg/m³
- Druckfestigkeit: 16 - 50 N/mm²
- Biegezugfestigkeit: LOP 6-10 Mpa
- Wasserdiffusionswiderstand: 50 - 200 μ
- Längenausdehnung: E-5: 1.00 - 1.50 x 10⁻⁵ 1/K
- Materialstärke: Mind. 6 mm für Innenausbauanwendungen; mind. 12 mm für Außenbereichsanwendungen



Bitte beachten Sie, dass Elemente mit größeren Abmessungen produzierbar sind. Jedoch können große Abmessungen zu unhandlichen und dadurch unwirtschaftlichen Elementen führen, wenn die entsprechende Logistik auf den Transportwegen und bauseits nicht gegeben ist.

Acoustics

Room Acoustics

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

Fire protection

Building Material Class

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

GFB-Element inkl. Akustikvlies und Mineralwolle

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 Unterkonstruktionssystemen (z.B. für Faserbeton zugelassene Agraffenprofilunterkonstruktion) |
| Free-standing with a floor-mounted framework | Unterkonstruktionsvariante |
| 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-Unterkonstruktionen | 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-/Terrazzooberfläche
- Klinkeroptik

Certification

Certificates

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



Applications

