



Technical data sheet for the CF material classes.

COMPACFOAM is available in seven different material classes.
Please use the following table to determine the appropriate class,
or contact us.

Sintered highly compressed EPS

| | | CF 100 | CF 125 | CF 150 | CF 200 | CF 300 | CF 400 | CF 600 | Norm |
|----------------------|--|----------------------------------|--------|--------|--------|--------|--------|----------------------------------|--------------------------|
| $f_{c,m,10\%}$ | Compressive strength 10% (N/mm ²) | 1,13 | 1,64 | 1,95 | 3,53 | 5,85 | 11,03 | 2,62 | EN 826 |
| $f_{c,m,2\%}$ | Compressive strength 2% (N/mm ²) | 0,73 | 0,81 | 0,98 | 1,93 | 3,01 | 4,31 | 1,54 | EN 826 |
| $f_{c,rk}$ | Characteristic strength (N/mm ²) | 1,02 | 1,48 | 1,55 | 3,19 | 5,19 | 9,97 | 2,37 | EN 14358 |
| $f_{c,rd}$ | Design value of compressive strength (N/mm ²) | 0,71 | 1,02 | 1,07 | 2,21 | 3,59 | 6,90 | 1,42 | |
| | Safety factors | $\gamma_m = 1,3 / k_{mod} = 0,9$ | | | | | | $\gamma_m = 1,5 / k_{mod} = 0,9$ | |
| $f_{c,D}$ | Calculation value for serviceability limit state (N/mm ²) | 0,62 | 0,69 | 0,83 | 1,64 | 2,56 | 3,66 | 1,23 | |
| E_{mean} | E-Module (N/mm ²) | 28,7 | 38,4 | 45,5 | 99,4 | 168,7 | 269,8 | 73 | EN 826 |
| $F_{t,rk,7.5}$ | Characteristic pull out strength $\varnothing 7,5$ mm (N) | 837 | 919 | 1.179 | 1.875 | 2.677 | 4.047 | 825 | i.a. EN 14358 |
| $F_{90,rk,7.5,15mm}$ | Characteristic shear strength $\varnothing 7,5$ mm (N) * mit 15mm Befestigungsabstand, 40mm Einschraubtiefe | 296 | 394 | 493 | 542 | 1.012 | 1.333 | - | i.a. EN 14358 |
| $F_{t,rk,4.5}$ | Characteristic pull out strength $\varnothing 4,5$ mm (N) | 505 | 565 | 747 | 979 | 1.729 | 2.829 | - | i.a. EN 14358 |
| $F_{90,rk,4.5}$ | Characteristic shear strength $\varnothing 4,5$ mm (N) * * at 1.5 mm max. head deformation, 40 mm anchoring length, 30 mm edge distance | 103 | 112 | 150 | 214 | 319 | 500 | - | i.a. EN 14358 |
| | Thermal conductivity rated value (W/mK) | 0,0387 | 0,0377 | 0,0423 | 0,0459 | 0,0531 | 0,0650 | 0,045 | EN 12667 |
| | Water vapor diffusion resistance factor | ~25 | | | | | | | EN 12086-1 |
| | Fire behaviour | E (B1) flame-retardant | | | | | | | EN 13501-1 DIN 4102-1 |
| | Maximum water absorption 28 days | ~5% | | | | | | | EN 12087 |