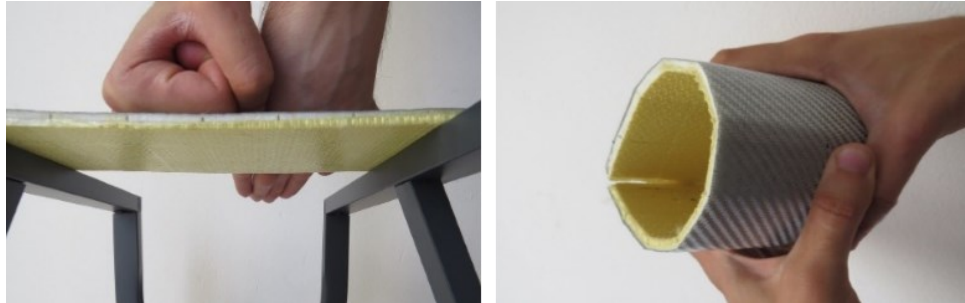


MadFlex 5.5 mm HEAT RESISTANT

In order to meet the severe fire certifications of many sectors, especially aeronautic, building and transport, CoRe has developed this unique variant of the MadFlex, optimized for high temperature and flames resistance. Of course, this MadFlex still preserves its innovative mechanical features, combined with its extreme lightness and insulation ability.

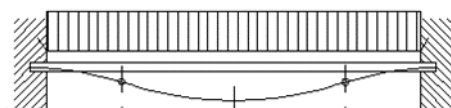


| | UNIT | TYPICAL VALUE | TEST |
|-----------------------------------|----------------------|---------------|-------------------|
| Thickness | mm | 5.5 | |
| Areal weight | kg/m ² | 1.75 | |
| Tensile strength | kN/m | 500 | ASTM D3039/D3039M |
| Failure bending moment | N·m/m | 225 | ASTM D7250/D7250M |
| Bending stiffness "rigid side" | N·m ² /m | 55 | ASTM D7250/D7250M |
| Bending stiffness "flexible side" | N·m ² /m | 0.4 | ASTM D7250/D7250M |
| Flatwise compressive strength | MPa | 1.7 | ASTM C365/C365M |
| Heat transfer coefficient | W/ m ² °K | 7.2 | DIN52612 |

Maximum load for a 0,5 m x 0,5 m panel for two different restraint conditions:



Simple supports: 365 kg



Fixed supports: 10,900 kg

OTHER FEATURES

- Produced by using components certified according to the regulation of the aeronautical sector FAR/CS 25.853 Appendix F, Part 1 (vertical burn test)
- It can continuously work up to 150°C
- A face can be easily coated by a steel layer in order to furtherly improve the flame resistance
- A 10 m long panel can be wrapped into a 20 cm diameter
- Thermoformable in plane or curved shapes
- Good resistance to chemical agents
- Good vibration damping ability
- Great resistance to spike penetration and blade cutting