Serge Ferrari
architecture

Tenseo

Comfort

SK20



BUITINK TECHNOLOGY
Advanced Lightweight Structures

Tenseo Comfort SK20

An indoor, non-combustible ceiling for demanding environements

Interior applications:
Tensioned ceilings, acoustic panels and baffles, skylight shades, illuminated walls and partitions

Optimum fire safety

Tenseo Comfort SK20 complies with the most stringent fire safety standards, including those applicable to public buildings.

- A2-s1,d0: non-flammable material,
- Class A: minimal flame spread/ smoke material,
- F0: it will release low non-toxic smoke in a fire.

A comprehensive solution for optimum comfort

- thermal comfort (SK20-1294E) Up to 25% reduction in air conditioning energy requirements for an office building in Barcelona
- visual comfort (SK20-1294): preserves daylighting to reduce the use of artificial light
- acoustic comfort: significant reduction in reverberation time (see acoustic properties table).

Inconspicuous integration

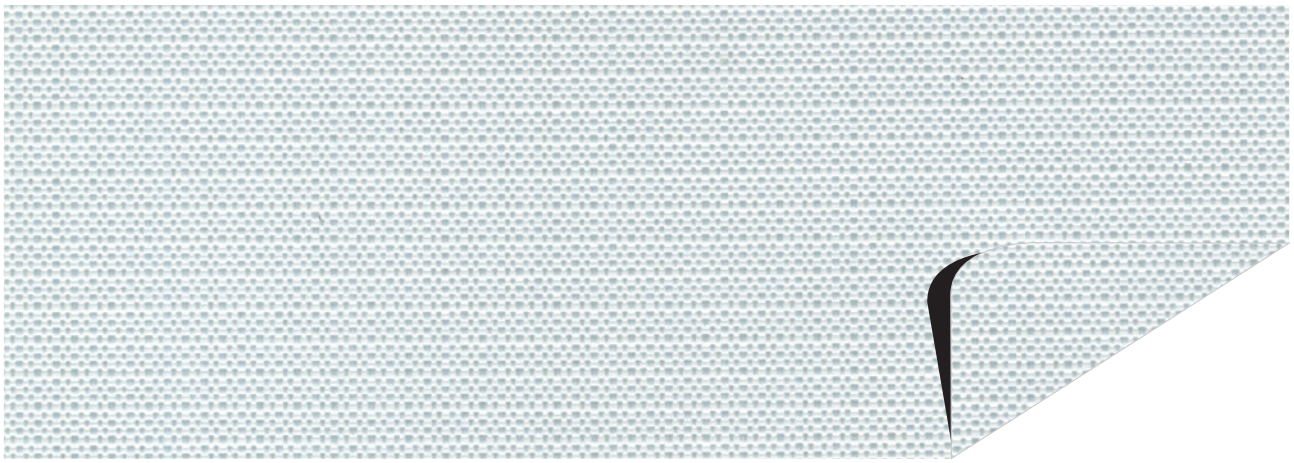
Tenseo Comfort SK20 is made to naturally withstand elevated temperatures while maintaining its original properties. It is lightweight and thin so ceiling do not take up much space.



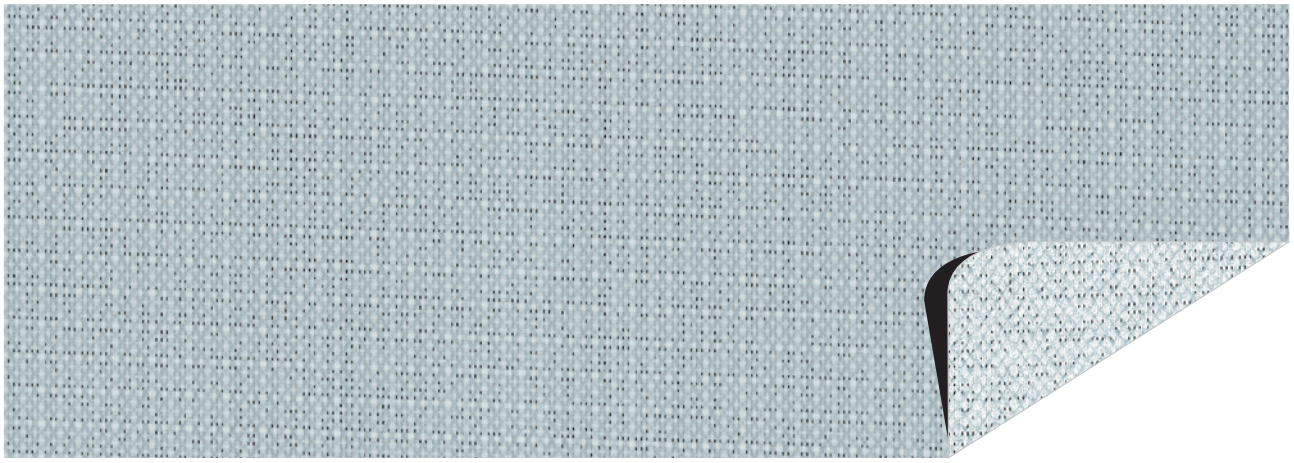


Thermal, visual and acoustic: three times more comfort

Tenseo Comfort SK20



Translucent **SK20-1294**



Translucent/Alu Low-E **SK20-1294 E**



LowE advantages (for SK20-1294E)

Screen effect

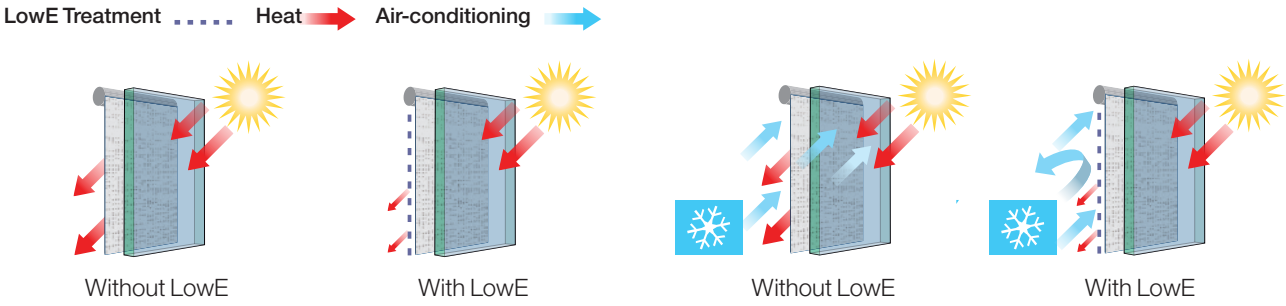
In bright sunlight, the material heats up, but re-emits only a little heat inward. It acts as a thermal barrier, reducing:

- solar heat in summer,
- the sensation of warm in summer or cold in winter felt near the glass wall or roof.

Mirror effect

LowE treatment strengthens the effective power of air conditioning or heating equipment. Hot air in winter or cold in summer is reflected and therefore maintained inside. Outward losses are limited.

LowE treatment improves occupants comfort and the energy performance of the building. Operating costs and environmental impact are reduced.



Solar and light properties (EN 14501)

References	Face		Emissivity	TS	RS	AS	TV n-h	RV	C glazing g_{tot}^{i} *	D glazing g_{tot}^{i} **
SK20-1294 E	**A**		0.55	17	54	29	17	54	0.40	0.15
SK20-1294 E	**B**		0.90	17	54	29	17	55	0.40	0.15
SK20-1294	**A/B**		0.90	45	53	2	45	53	0.41	0.18

A: Aluminium face exposed to the sun
B: Coloured face exposed to the sun
Emissivity: ASTM 1585
TS: Solar Transmission (%)
RS: Solar Reflection (%)
AS: Solar Absorption (%)
TS + RS + AS = 100% of incident energy
TV n-h: Normal-hemispherical visible light transmission (%)
RV: Visible light reflection (%)
g_{tot}^{i}: Internal solar factor

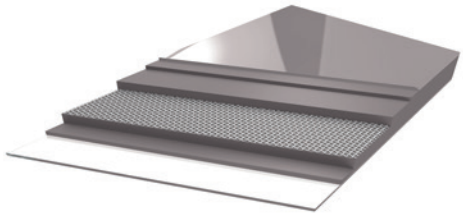
*** Simplified method ISO 52022-1**
The transmission and reflection values above are based on the integrated values of the glass combined with the screen.
These are used to calculate the g_{tot} value.
Type "C" glazing is double glazing and insulated with low emissivity in position 3 (4 + 16 + 4; Argon-filled) g = 0.59 - U = 1.2.

**** Detailed method ISO 52022-3**
The transmission and reflection values above are based on the spectral values of the glass combined with the screen.
These are used to calculate the g_{tot} value.
Type "D" glazing is double glazing and insulated with low emissivity in position 2 (4 + 16 + 4; Argon-filled) g = 0.32 - U = 1.1.

Smart Coating technology

Smart Coating technology enables the production of **high-performance glass-fiber-based products with silicone coating,** ensuring **exceptional longevity, fire resistance, thermal performance (low emissivity), and acoustic absorption.**

This advanced technology provides a **durable yet lightweight solution**, making it ideal for applications that demand both **high performance and ease of use** in extreme conditions.



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Acoustic properties (EN ISO 20354 / ISO 354)

EN ISO 20354 / ISO 354	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	**Alpha w**	**NRC** (Noise Reduction Coefficient)
Tenseo Comfort SK20 + 100 mm air grap	0.05	0.10	0.20	0.35	0.40	0.40	**0.30**	**0.25**
Tenseo Comfort SK20 + 45 mm Rockwool	0.15	0.60	1	1	1	1	**0.90**	**0.90**



Tenseo Comfort SK20

	Mechanical properties
Tensile strength (warp/weft) EN ISO 1421	200/150 daN/5 cm • 450/337 lbs/2 in
Tear strength (warp/weft) DIN 53.363	25/20 daN • 56/45 lbs
	Fire resistance
Rating - International fire certificate available, such as*	Smoke class **F0**/NF F16-101 **A2-s1,d0**/EN 13501-1
	Dimensions
Weight EN ISO 2286-2	220 g/m² • 6.5 oz/sq.yd
Thickness EN ISO 5084	0.22 mm • 220 microns
Width	262 cm • 103.1 in
Roll length	40 lm • 43.74 yds
	Complementary information
Coating (top/back)	Silicon/Silicon
Yarn	Glass
Assembly	Refer to our fabrication guide
	Management systems
	Quality: ISO 9001 • **Environment**: ISO 14001 • **Energy**: ISO 50001
	Certifications, labels, warranty

Smart Coating Technology

***** Contact us for latest certificate updates & validities

[1] Summarizes the group's CSR project focused on human, to align economic performance and positive impact.

Mechanical properties are average values with a +/-10% tolerance.

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