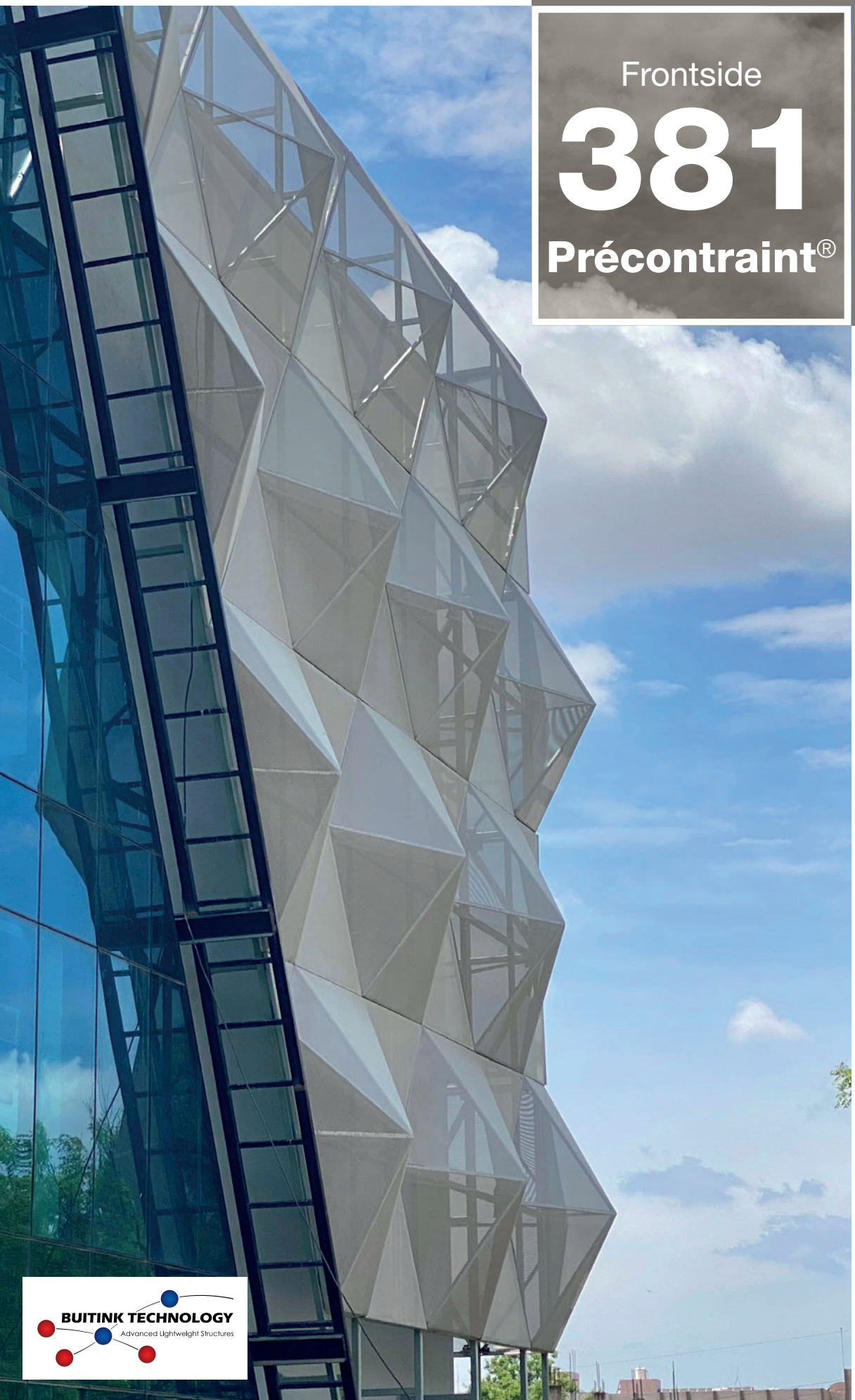
Serge Ferrari
architecture

Tenseo

Frontside

381

Précontraint®



BUITINK TECHNOLOGY
Advanced Lightweight Structures

Tenseo Frontside 381

Solar protection and perfect outward visibility

A unique solution to assert or transform a building's personality

Unlimited creativity

- Pearly or metallic colors
- Material flexibility to bring facades to life and enhance on lighting effects
- Graphic customization (digital or serigraphic printing on front face)

Thermal and visual comfort

- Thermal control of buildings: blocks up to 85% of solar heat

Reduction of environmental impacts

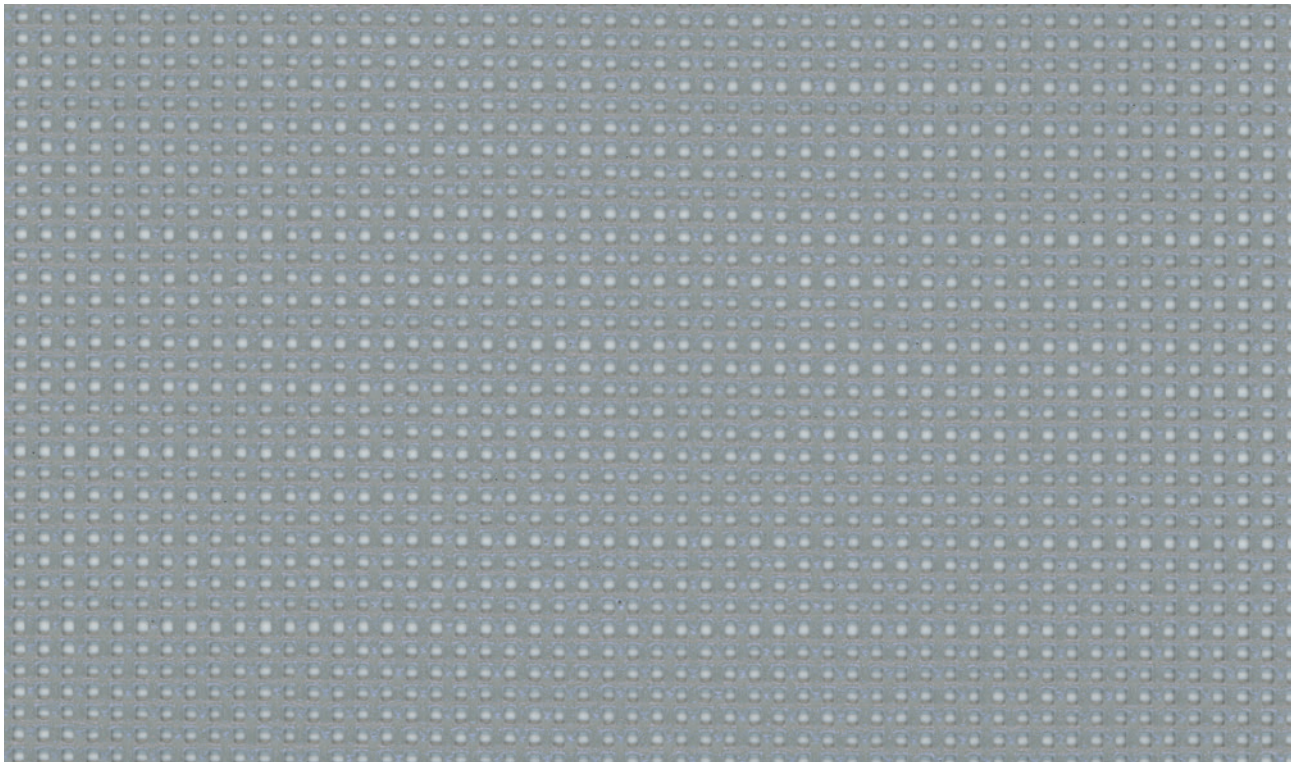
- Light bioclimatic facade
- Low carbon footprint



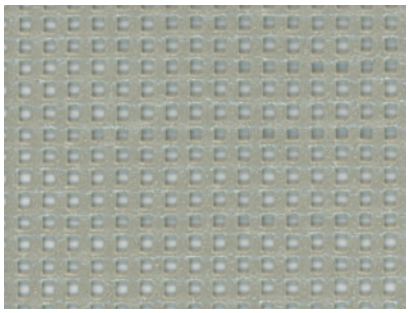


An innovative facade solution combining creativity and performance

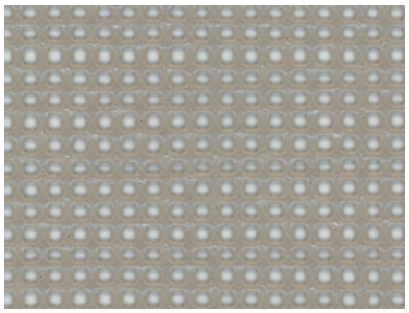
Tenseo Frontside 381



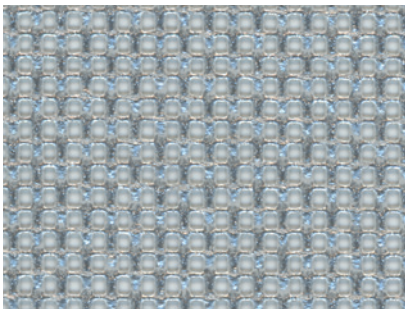
Interferential grey **381-3121**



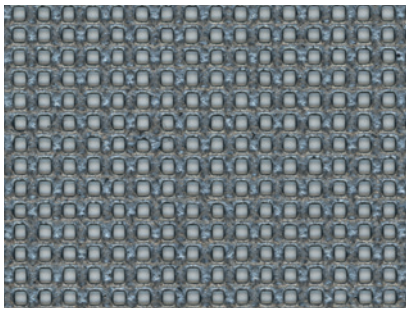
Ash blond **381-3109**



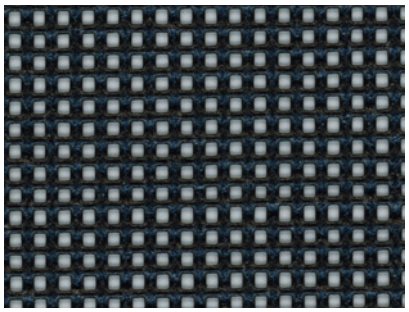
Sandy beige **381-3123**



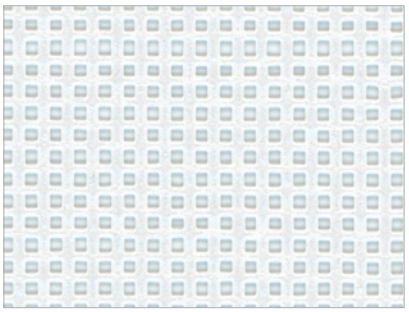
Silver metallic **381-3128**



Beaten metal **381-3125**

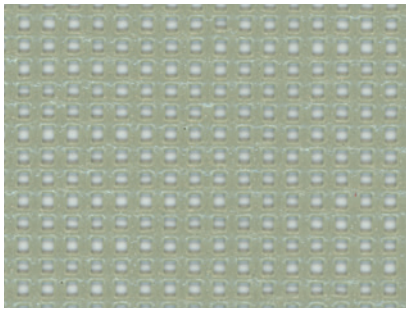


Black cherry **381-3120**

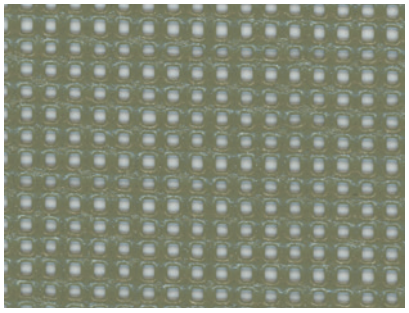


Print White* **381-50708**

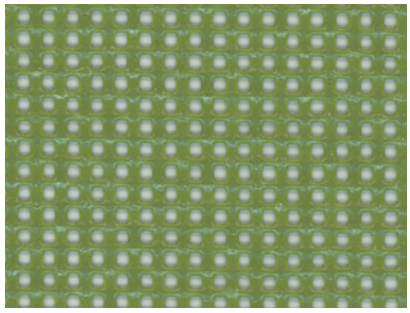
* To be printed on the back side with Sign Mat special print varnish



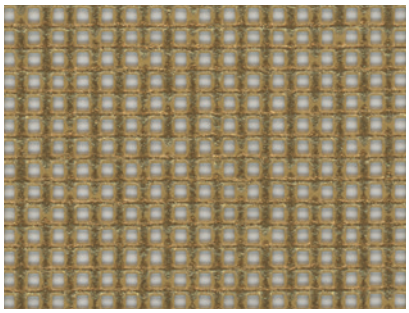
Milky green **381-3119**



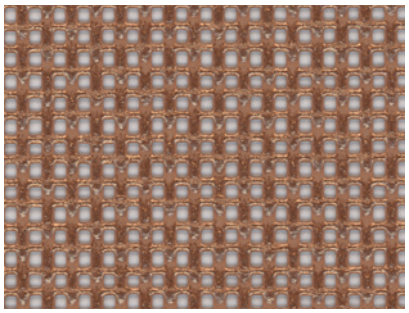
Cactus green **381-3118**



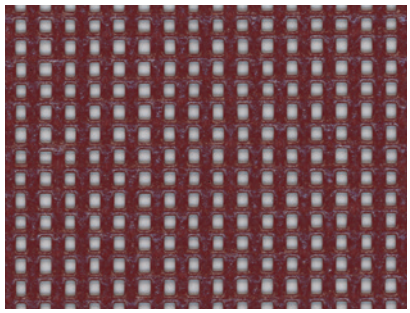
Spring green **381-3117**



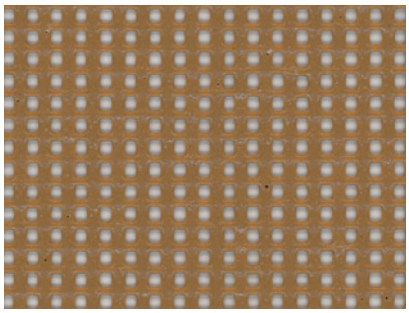
Temperament golden **381-3124**



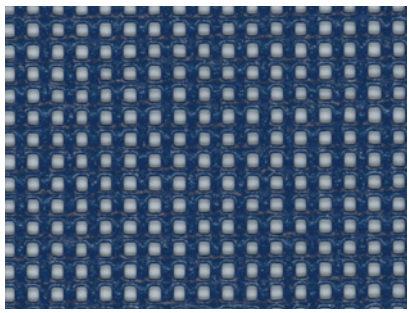
Cinnamon copper **381-3127**



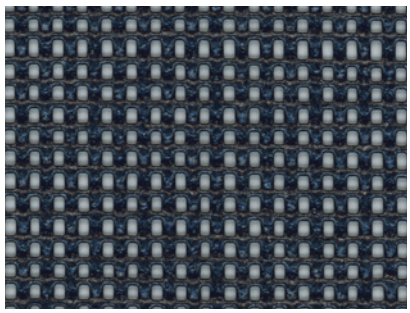
Glowing red **381-3105**



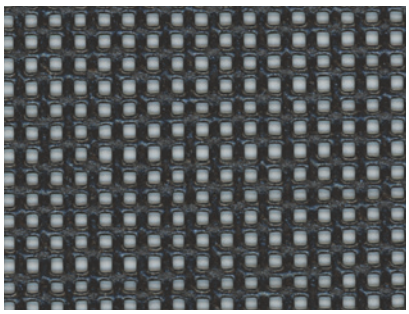
Pumpkin **381-3101**



Midnight blue **381-3111**



Slate **381-3113**



Choco **381-3108**

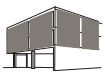
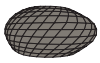
Solar and light properties
(based on EN 14501)

		Width 267 cm 105.1 in	TS	RS	AS	TV n-h	$g_{tot}{}^{e}$
381-3101		●	30	27	43	28	0.17
381-3105		●	29	19	52	29	0.17
381-3108		●	27	10	63	27	0.17
381-3109		●	28	37	35	28	0.15
381-3111		●	28	21	51	27	0.16
381-3113		●	27	9	64	27	0.17
381-3117		●	27	26	47	27	0.16
381-3118		●	28	30	42	28	0.16
381-3119		●	30	41	29	29	0.15
381-3120		●	28	6	66	28	0.18
381-3121		●	28	31	41	28	0.16
381-3123		●	29	34	37	28	0.16
381-3124		●	28	28	44	27	0.16
381-3125		●	27	20	53	28	0.16
381-3127		●	27	29	44	28	0.15
381-3128		●	28	40	32	27	0.15
381-50708		●	32	56	12	31	0.15

TS	Solar Transmission in %
RS	Solar Reflection in %
AS	Solar Absorption in %
TS + RS + AS	=100% of the incident energy
TV n-h	Normal-hemispherical visible light transmission (%)
$g_{tot}{}^{e}$	External Solar Factor

g_{tot} according to: ISO 52022-1 simplified method	Simplified calculation method of the solar factor g_{tot} for solar protection device combined with glazing. Type "D" glazing: insulating double glazing with low emissivity on face 2 (4+16+4 ; Argon filling) g=0.32 - U=1.1

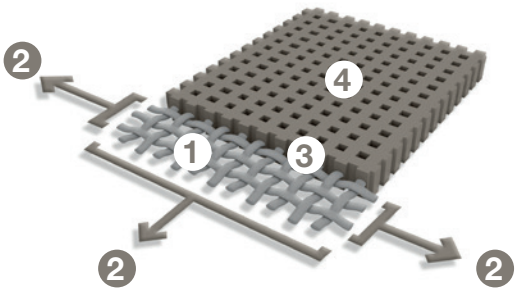
Main applications

 Facade covering	✓
 Fixed sun breakers	✓
 Claddings for balconies	✓
 Claddings of technical units	✓
 Freeform facade	✓



Exclusive Précontraint® technology

This unique, world-patented technology involves maintaining the composite in bi-axial tension throughout the manufacturing cycle. It ensures our materials' exceptional performance characteristics, which ensure they exceed market standards in terms of long-term stability, strength, coating thickness and flatness.



1	**High-tenacity polyester micro-yarn reinforcing mesh**	Higher resistance to elongation and tearing
2	**Coating under bi-axial, warp and weft tension**	No deformation during installation and usage
3	**Coating thickness covering top of yarns and dirt repellent surface treatment**	Enhanced aesthetic and structural durability
4	**Extremely flat and thin**	Easy-to-clean smooth surface ensuring compactness and easy rolling

Tenseo Frontside 381

	Mechanical properties
Tensile strength (warp/weft) EN ISO 1421	330/330 daN/5 cm • 742/742 lbs/2 in
Tear strength (warp/weft) DIN 53.363	80/90 daN • 180/202 lbs
Adhesion EN ISO 2411	9 daN/5 cm • 20 lbs/2 in

	Fire resistance
Rating - International fire certificate available, such as*	NFPA 701 **Method 1** NFPA 701 **Method 2** **Class A**/ASTM E84 CSFM T19 AS/NZS **1530.3** **Group 1**/AS/NZS 3837 **B-s2,d0**/EN 13501-1

	Dimensions
Weight EN ISO 2286-2	550 g/m² • 16.2 oz/sq. yd
Thickness EN ISO 5084	0.95 mm • 950 microns
Width	267 cm • 105.1 in
Roll length	50 lm • 54.68 yd

	Complementary information
Front face	Metallic or pearl finish
Back face	Matt
Yarn	1100 Dtex PES HT
Porosity	28%

	Management system
	Quality: ISO 9001 • **Environment**: ISO 14001 • **Energy**: ISO 50001

Certifications, labels, warranty

Précontraint® Technology

10-year warranty

***** 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 +/-5% tolerance, variance of +/-10% for weight given.

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EN

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BUITINK TECHNOLOGY Advanced Lightweight Structures

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