



Technical information

Materials

Protech	Protech is a registered trademark owned by Steelcase whose resistance is superior to other laminates. As a result of continuous research and development led by Steelcase and its suppliers, the Protech material is a combination of technologies uniting decor paper impregnation by the resin processes (melamine) and the extra protection of a resin layer (HPL).
TechTop	Tech Top has been developed in order to obtain the same aesthetics as Solid Core Top (e.g. Trespa) but more environment friendly. It is a high density sandwich core panel covered by laminate on both sides.
Melamine	Melamine is used for certain table tops, storage and storage tops. It is a core panel with a decorative resin based melamine on both sides.

Quality tests

Norms	Requirements		Performance	
	Label Marque NF	Laminate EN438/ISO4586	Melamine NF B 54 113 DIN 68765	Protech ®
Resistance to abrasion: Number of cycles until the surface gets used.	> 150 cycles	≥ 350 cycles	> 50 cycles (wood decors) > 150 cycles (plain decors)	> 350 cycles
Resistance to scratches: A force is applied to a punch until a scratch marks appears.	≥ 1,5N	≥ 2N	> 2,5N	> 2,5N
Resistance to impacts: A 500g ball is dropped from a height of 50 cm on to a surface. The diameter of the dent left in the surface is measured.	∅ < 10 mm	∅ < 10 mm	∅ < 10 mm: height of 30 cm	∅ < 10 mm
Resistance to a cigarette burns: A cigarette is placed on the surface and left to burn completely. The surface is cleaned and examined for discoloration.	Moderate brown stain accepted	Moderate brown stain accepted	Moderate brown stain accepted	Moderate brown stain accepted
Resistance to color change in artificial light: The surface is exposed to a Xenon arc light for a period of time then examined for discoloration (compared against numbered reference standards).	Maximum change in shade below standard no 6 contrast of 4/5 on grey standard	Maximum change in shade below standard no 6 contrast of 4/5 on grey standard	Maximum change in shade below standard no 6 contrast of 4/5 on grey standard	Maximum change in shade below standard no 6 contrast of 4/5 on grey standard
Resistance to dry heat: A hot container is placed on the surface for a given period of time to observe whether cracks appear.	No cracks	No cracks	No cracks	No cracks
Resistance to solvents, ink, alcohol and water: An amount is placed on the surface for a given period of time.	No stains after cleaning	No stains after cleaning	No stains after cleaning	No stains after cleaning

Material per range

Desking and Storage				
Ranges	Melamine	Protech	Tech Top	Laminate
c:scape				
Flexbox				
FrameOne				
FrameOne Bench				
FrameOne Loop				
Frisco				
Fusion				
Kalidro				
media:scape				
Mela HD				
Melamine Cupboard				
Melamine Pedestal				
Moby2				
Movida				
Quadrino				
Quba II / Vitesse II				
Slide				
Tenaro				
TouchDown2				
TNT*				
Universal Pedestal	tops			tops
Universal Storage	tops			tops

Space Architecture				
Ranges	Melamine	Protech	Tech Top	Laminate
Forward				
Forward Compact				
FreeWall2				
Partito Rail				
Partito Screen				
Partito Wall				

Conferencing tables				
Ranges	Melamine	Protech	Tech Top	Laminate
4.8 four point eight				
FlipTop Twin				
Frisco				
Kalidro				
Movida				
Quadrino				
Quba II / Vitesse II				
Summit2				
Tenaro				
TNT*				

Welcome / In Between				
Ranges	Melamine	Protech	Tech Top	Laminate
B Free Lounge				

Reflection indices

1F/1FO Bahia	0,45 / 0,45
ET/160 Natural Maple	0,53 / 0,52
AT Acacia	0,68
MM/180 Beech	0,30 / 0,25
PR/PRO Pear	0,25 / 0,20
DW Dark Pear	-
WY Snow	0,71 / 0,72
GO/230 Crystal	0,52 / 0,48

Recommendation: the reflection indice should be between 0,15 - 0,75.

Sustainability

E1 The particle boards follow the **E1 standard** (ISO EN 13986) ensuring virtually no emission of formaldehyde. They contain no other wood preservatives, no paraffin as a hydrophobic treatment, no heavy metals, and no chloride over the natural content in the wood.