

OVERVIEW FINISHING OPTIONS

Issue 02.2025 –
Replaces 06.2024

AIREX® structural foam core material

- / AIREX® SealX (SX)
- / FlexiCut (FC)
- / ContourKore SealX (CK SX)
- / ContourKore with Scrim cloth (CK)
- / Grooved (G)
- / Perforated (P)
- / Micro-sandwich (M)
- / Precision Thickness (PT)

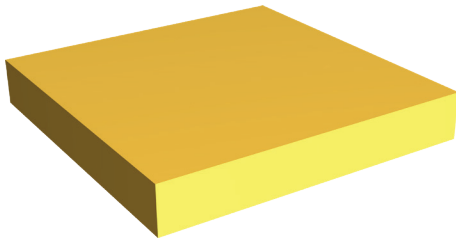
BALTEK® structural balsa core material

- / ContourKore (CK)
- / Adaptive ContourKore (ACK)
- / Perforated (P)
- / Grooved (G)
- / Grooved & Perforated (GP)
- / Grooved, Perforated & Semi-ContourKore (GPS)
- / Precision Thickness (PRE)
- / Surface Finish (LP, AL)

Rating of Finishing Options regarding specific requirements

most suitable ●●● suitable ●● ok ●

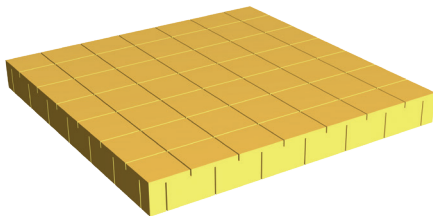
AIREX® SealX surface treatment (SX)



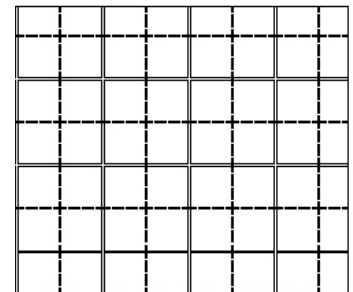
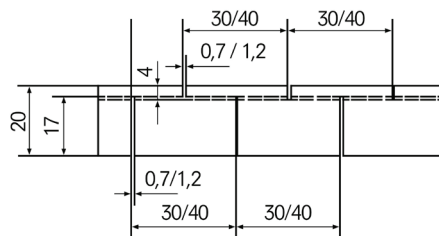
- / surface sealing for AIREX® T90 and T92
- / considerable reduction of resin uptake in infusion processes

	Sheet flexibility	Resin uptake	Promotes resin flow in infusion	Laminate surface quality
SX		●●●		

FlexiCut (FC)

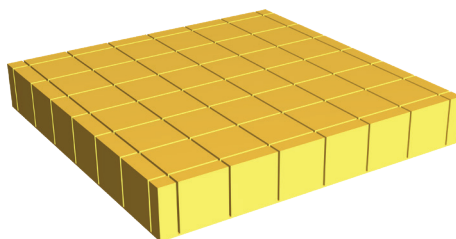


- / 30 x 30 mm cross-grooves 0.7 mm both sides (max thickness 30 mm and 130 kg/m³)
- / 40 x 40 mm cross-grooves 1.2 mm both sides (max thickness 50 mm, all densities)
- / kerf depth 85% / 20% of thickness
- / 2'200 holes/m²

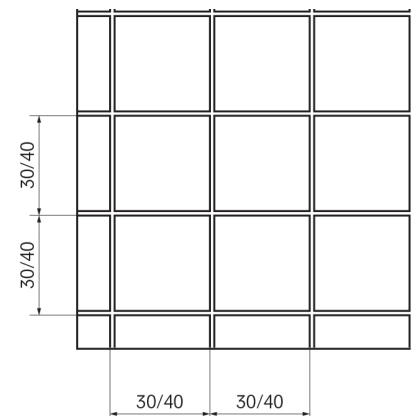
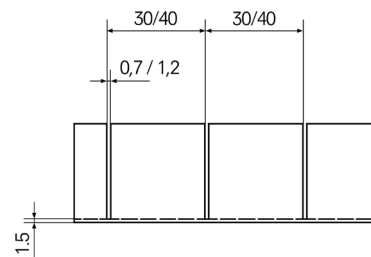


	Sheet flexibility	Resin uptake	Promotes resin flow in infusion	Laminate surface quality
FC	●●	●●	●●	●●●

ContourKore SealX (CK SX)

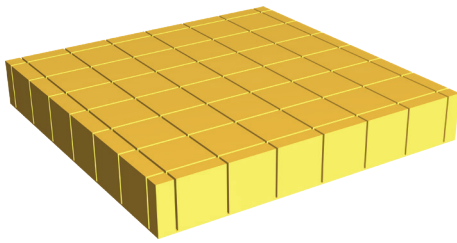


- / 30 x 30 mm pattern with 0.7 mm kerf width
- / 40 x 40 mm pattern with 1.2 mm kerf width
- / SealX surface treatment on both sides
- / no scrim cloth

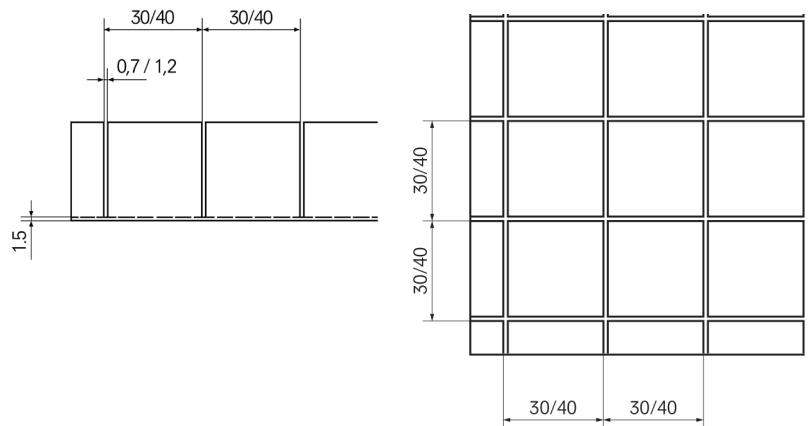


	Sheet flexibility	Resin uptake	Promotes resin flow in infusion	Laminate surface quality
CK SX	●●●	●●●	●●	●●●

ContourKore with Scrim cloth (CK)

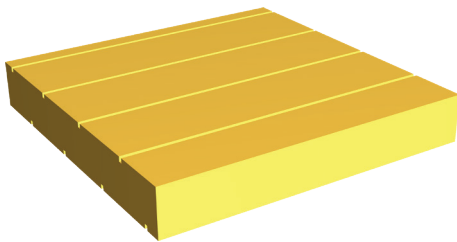


- / 30 x 30 mm pattern with 0.7 mm kerf width
- / 40 x 40 mm pattern with 1.2 mm kerf width
- / blocks are cut almost down to cloth



	Sheet flexibility	Resin uptake	Promotes resin flow in infusion	Laminate surface quality
CK

Grooved (G)



- / parallel or crosswise grooves (G20 one side only)
- / one side or both sides
- / groove depth approx. 3.0 mm
- / max. 100 mm thickness

G20

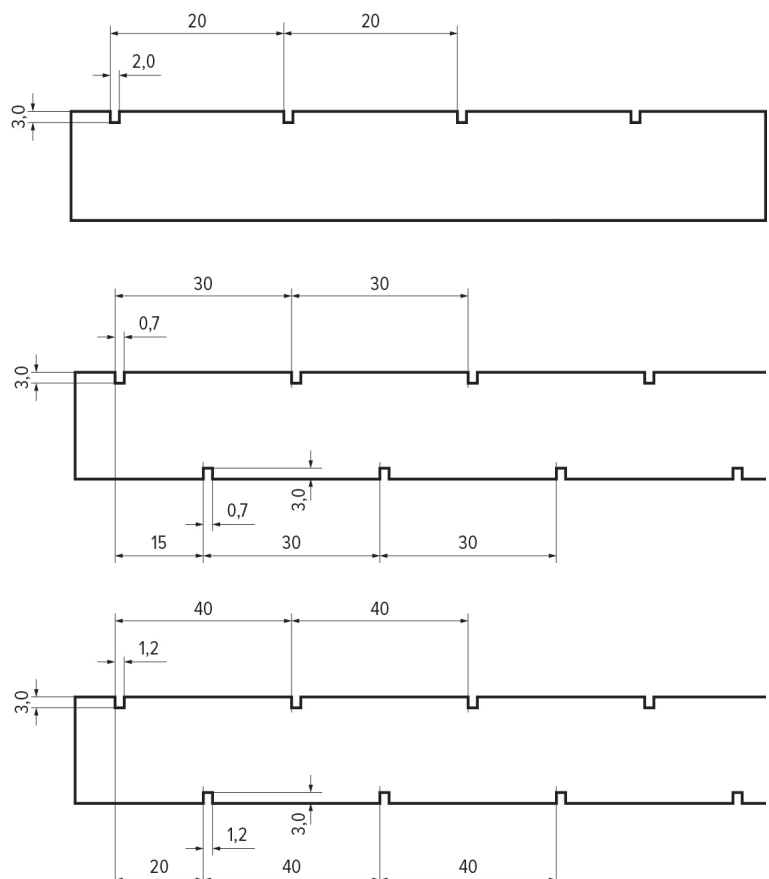
- / 20 x 20 mm grooving pattern with 2.0 mm kerf width

G30

- / 30 x 30 mm grooving pattern with 0.7 mm kerf width (max. density 130 kg/m³)

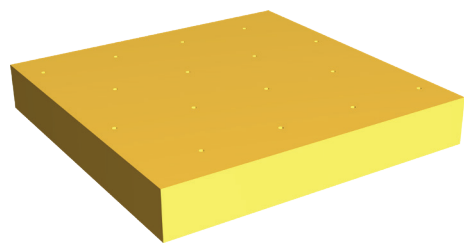
G40

- / 40 x 40 mm grooving pattern with 1.2 mm kerf width

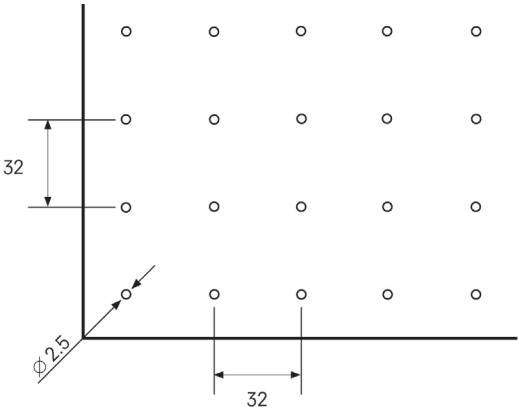


	Sheet flexibility	Resin uptake	Promotes resin flow in infusion	Laminate surface quality
G	

Perforated (P30)

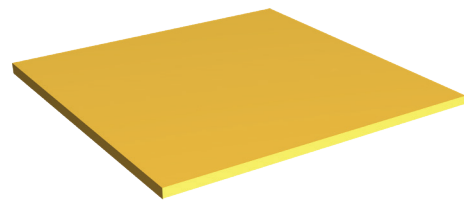


- / holes (diameter 2.5 mm)
- / hole distance 32 x 32 mm pattern



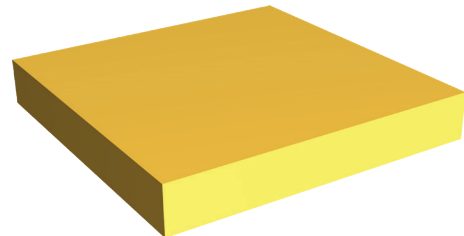
	Sheet flexibility	Resin uptake	Promotes resin flow in infusion	Laminate surface quality
P	

Micro-sandwich (M)



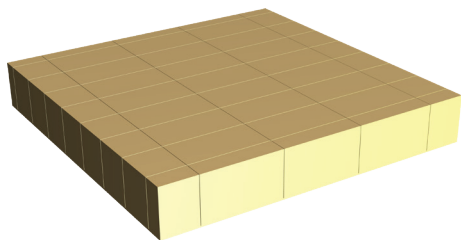
- / superior surface quality
- / lower resin uptake
- / precision thickness range up to +/- 0.3 mm
- / thicknesses from 2 mm
- / available for AIREX® PET and AIREX® TegraCore

Precision Thickness (PT)



- / improved thickness tolerance of sheet:
- / PT02: +0.2 / -0.4 mm (0.6 mm range)

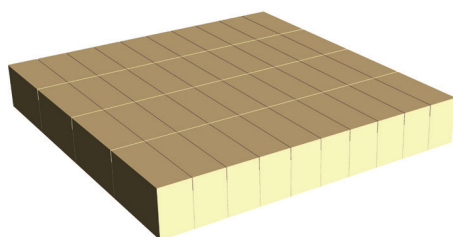
ContourKore (CK)



- / 25.4 mm x 50.8 mm block pattern (l x w)
- / kerf width 0.4 mm
- / glass fiber cloth on bottom side of sheet
- / blocks are cut almost down to cloth
- / SB.50/100: sheets up to 57.2 mm thickness
- / SB.150: sheets up to 38.1 mm thickness

	Sheet flexibility	Resin uptake	Promotes resin flow in infusion	Laminate surface quality
CK	●●●	●●	●●	●●

Adaptive ContourKore (ACK)

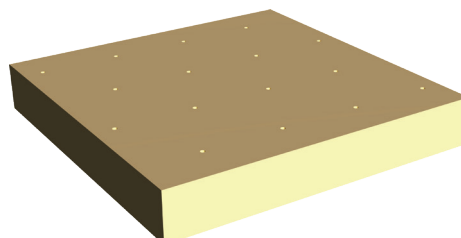


- / CK cut with alternative block size

FORMAT	BLOCK SPACING (across length) mm	BLOCK SPACING (across width) mm	AVAILABLE THICKNESS RANGE * mm	SHEET FLEXIBILITY	RESIN UPTAKE
ACK 1x1	25.4	25.4	6.4 - 31.8	●●●●●	●
ACK 2x6	50.8	152.4	6.4 - 57.2	●●●●	●●
ACK 3x6	76.2	152.4	19.1 - 57.2	●●●	●●●
ACK 2x0 (semi-CK)	50.8	-	6.4 - 57.2	●●	●●●●
ACK 6x0 (semi-CK)	152.4	-	19.1 - 57.2	●	●●●●●

* max. thickness 38.1 mm for SB.150

Perforated (P)



P50 (standard)

- / punched holes (dia. approx. 3.2 mm)
- / distance between holes: 50.8 mm across width; 101.6 mm across length
- / staggered pattern
- / max. thickness 57.2 mm
- / max. thickness 44.5 mm for SB.150

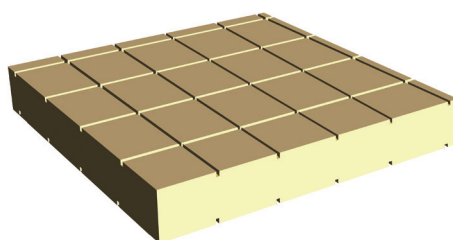
P20

- / punched holes (dia. approx. 3.2 mm)
- / hole distance 20 mm
- / square pattern
- / max. thickness 50.8 mm
- / max. thickness 44.5 mm for SB.150

other option available by CnC only

	Sheet flexibility	Resin uptake	Promotes resin flow in infusion	Laminate surface quality
P50		●●●	●	●●●
P20		●●	●●	●●●

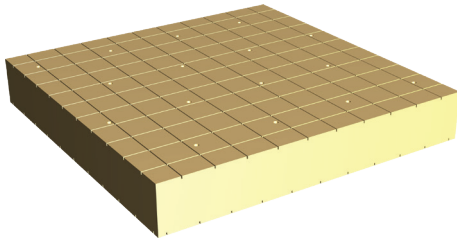
Grooved (G)



- / one or two directions
- / single side or both sides
- / groove width 0.6 mm, depth approx. 1.6 mm
- / groove distance 19.1 mm (offset < 12.7 mm thick)
- / max. thickness 57.2 mm (44.5 mm for SB.150)

	Sheet flexibility	Resin uptake	Promotes resin flow in infusion	Laminate surface quality
G		●●●	●●●	●●●

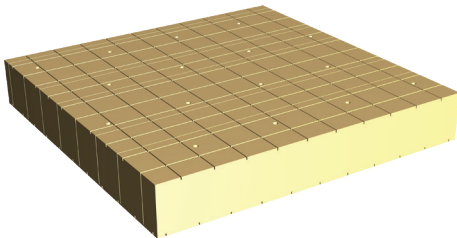
Grooved & Perforated (GP)



- / Grooved (G) in two directions
- / Option 1 grooved both sides, perforation pattern P50 (GP)
- / Option 2 grooved one side only, perforation pattern P20 (G1SP)

	Sheet flexibility	Resin uptake	Promotes resin flow in infusion	Laminate surface quality
GP		••	•••	•••
G1SP		•••	•••	•••

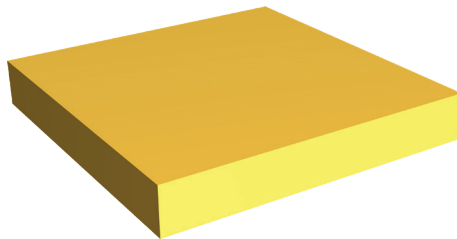
Grooved, Perforated & semi-ContourKore, (GPS)



- / Adaptive CK in one direction; 50.8 mm block (ACK 2x0)
- / Option 1 grooved both sides, perforation pattern P50 (GPS)
- / Option 2 grooved one side only, perforation pattern P20 (G1PS)

	Sheet flexibility	Resin uptake	Promotes resin flow in infusion	Laminate surface quality
GPS	•	••	•••	•••
G1PS	•	•••	•••	•••

Precision Thickness (PRE)



- / -0.25 mm / +0.25 mm *

* standard thickness tolerance is -0.75 mm / +0.25 mm)

Surface Finish

- / **LamPrep (LP)** [uncoated]
specialized sanding for all types of lamination processes
- / **AL600 (AL)** [surface coated]
reduced porosity for vacuum bagging & lower moisture uptake