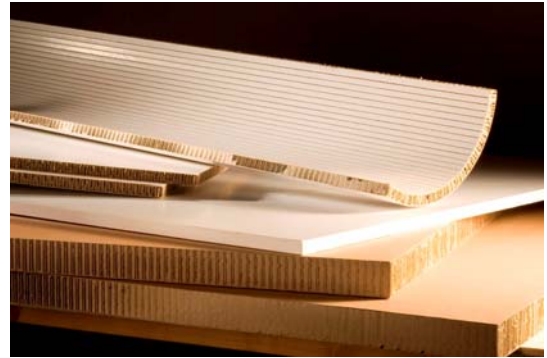


1. Standard Design

One-sided corrugated cardboard, coalesced into a composite
Flute size A (flute pitch 8–9,5 mm, flute height 4,8–5,3 mm)
Paper lamination, formatted



Both sides laminated (paper)	
not-closed edges	closed edges
The edges can show truncated waves	edges are closed with board lamination paper

2. Optional

Mechanical processing by format sawing, contour cutting, CNC-milling, punching and pressing according customer request and technical feasibility

3. Technical Specifications

3.1 Dimensions

	Both sides laminated, not-closed edges	Both sides laminated, closed edges **		Tolerances
Length	50 - 3130 mm	300 mm	up to 2950 mm (at minimum thickness 15 mm) up to 2880 mm (at maximum thickness 50 mm)	± 3 mm
Width	50 - 1260 mm	300 mm	up to 1210 mm (at minimum thickness 15 mm) up to 1140 mm (at maximum thickness 50 mm)	± 3 mm
Thickness	5 – 80 mm*	15 - 50 mm		± 0,3 mm

*Other dimensions on request

** to calculate the exact length and width of the laminated Wave board with closed edges, please use the formula "(2x thickness) + 20mm" and diminish the value from the maximum length (3000mm) and width (1260mm).

3.2 Additional weight to SWAP Sinus Wave Board not-laminated

Typ	Weight	Example (1000 x 1000 x 10 mm)	Weight
SWAP classic board (SCB)	660 – 700 g/m ²	Board brown	1,23 - 1,27 Kg
SWAP excellent board (SEB)	850 – 1000 g/m ²	Board white	1,50 - 1,65 Kg

3.3 Material Moisture Content

7 - 11 % on delivery ex works

4. Storage Conditions

Temperature: 18 - 25 °C

Humidity: 40 - 55 % relative humidity

Storage information: stacked stocking (horizontally), protected against humidity and heat sources

Guaranteed storage time: 3 months beginning delivery ex works

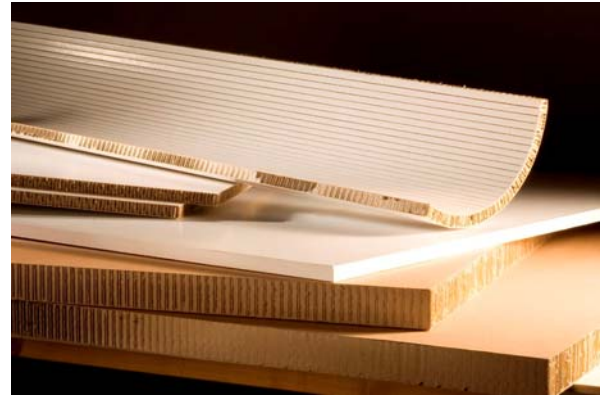
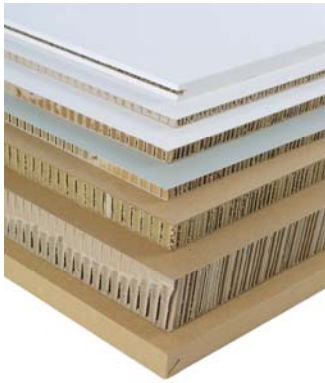
5. Waste Disposal

Equal to disposal of paper/paperboard

Disclaimer of Warranty

We assume the warranty for a constant and perfect quality of our products according to our terms of sale and delivery, but we reserve ourselves technical changes as well as advancements. Test products, prototypes etc. are excluded. These specifications, in particular suggestions for the processing and the use of our products, are based on the current status of our knowledge, experiences and scientific investigations. They do not represent a characteristic warranty in the legal sense. Application, use, and processing of the SWAP products occur outside of our controllability and are therefore exclusively our customers' responsibility. The use of processing temperatures above 105 °C are examine and assess from the processor. We recommend you carry out sufficient tests in order to guarantee the suitability of our products for the designated purpose. A liability, which goes beyond the value of our products, cannot be derived from the present remarks or from our free of charge and noncommittal advisory service.
There is a German and an English version of this document. If questions of interpretation arise, the German version will prevail.

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Rev.-Nr.:	05	
Erstellt:	Nagler	
Geprüft:	Leiter VT	
Datum:	17.12.2013	
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Compressive Strength of SWAP Board

Testing machine

- Quasar 50 KN

Testing speed

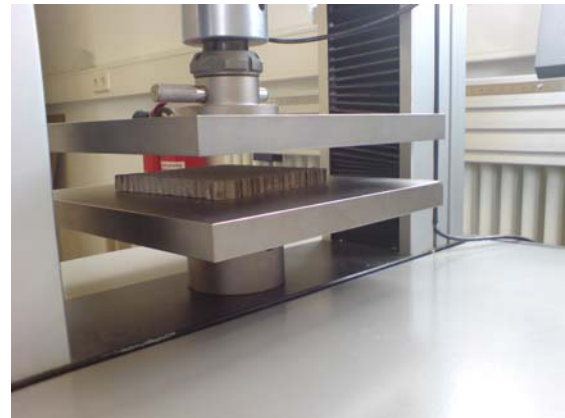
- 10 mm/min

Testing size

- 150 x 150 x 15 mm

Conditioning

- 48h at 23°C/ 50% rel. air humidity



Compressive strength/ plane pressure

guaranteed minimum value	Compressive strength (Kg/cm ²)
SWAP classic wave (SCW)	5,00
SWAP excellent wave (SEW)	7,00
SWAP ultra wave (SUW)	9,00

These values are also valid for our SWAP boards.

The compressive strength/ plane pressure (ECT) relates to the maximum pressure load perpendicular to the cutting area. The ECT is independent of the height of the honeycomb.

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