

Ingenious lightweights

SWL Light

Weighty tasks... solved lightly



SWL Light | finger-jointed light blockboards



For challenging performance requirements
in various fields of application!



Blockboards and plywood made of the light and rapidly growing wood type **albasia falcata** guarantee absolutely smooth surfaces with low weight, high strength and screw withdrawal resistance!



SWL ST Light | the unique lightweight blockboard

- Finger-jointed
- Strong
- Screw withdrawal resistant



SWL Light – ingenious lightweights

SWL PSIPX elements – sandwich elements with polystyrene core

Completely new possibilities in exhibition, theatre and stage construction based on massive weight reduction and extremely easy handling!



SWL PSIPX elements | the lightweight material with impressive characteristics

- Universal use
- Easy 3D shaping
- Problem-free processing

The extremely light sandwich elements can be processed easily using conventional machines (bevelling, veneering). Individual shaping is problem-free particularly due to the large board formats.

We also provide versions with frames.



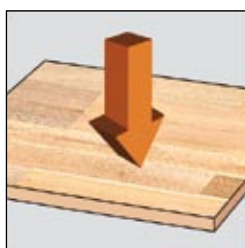
SWL Light | finger-jointed light blockboards

Product designation	ST Light fuma	ST Light HDF	ST Light hard fibre	STAE Light
Crossband	Fuma	HDF (2.1 or 3.5 mm)	Hard fibre board (hydrophobised and paintable)	Fuma, HDF (2.1 or 3.5 mm)
Core material	Finger-jointed, core material sanded on both sides made of albasia	Finger-jointed, core material sanded on both sides made of albasia	Finger-jointed, core material sanded on both sides made of albasia	Fully-bonded albasia rotary cut veneers with upright growth rings
Standard formats (mm)	2,050 x 5,200 2,600	5,200 2,600 x 2,050	5,200 2,600 x 2,050	2,050 x 5,200 2,600
Max. press format (mm)	On request	On request	On request	On request
Thicknesses (mm)	13 - 60 (approx. 60 mm on request)	13 - 60 (approx. 60 mm on request)	13 - 60 (approx. 60 mm on request)	13 - 60 (approx. 60 mm on request)
Specific weight (kg/m ³)	Approx. 300 - 320	Approx. 460 at 19 mm Approx. 420 at 38 mm	Approx. 460 at 19 mm Approx. 420 at 38 mm	Approx. 370

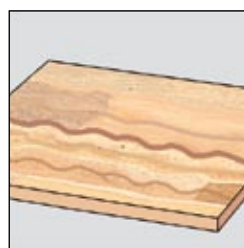
Product designation	ST Light HDF B1	STAE Light HDF B1	Rog V Light
Crossband	HDF B1	HDF B1	Fuma, HDF
Core material	Finger-jointed, core material sanded on both sides made of albasia	Fully-bonded albasia rotary cut veneers with upright growth rings	Fully-bonded albasia rotary cut veneers with upright growth rings
Standard formats (mm)	5,600 2,800 x 2,050	5,600 2,800 x 2,050	5,200 2,600 x 2,050
Thicknesses (mm)	13 - 70	13 - 55	13 - 38
Specific weight (kg/m ³)	Approx. 460 at 19 mm Approx. 420 at 38 mm	510 at 19 mm 430 at 38 mm	610 at 19 mm 510 at 38 mm
Fire protection class (acc. to DIN EN 13501-1)	C-S2,d0	C-S2,d0	On request



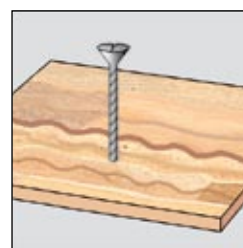
Finger-jointed core material



High strength (approx. 4,300 N/mm²)



Top swelling characteristics (2.3 %)



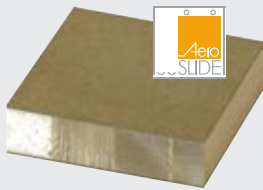
Unscrewing resistant (approx. 1,300 N/mm²)



Outstanding moulding properties

SWL Light – lightweight materials

SWL PSIPX elements – sandwich elements with polystyrene core



AeroSlide
(for large-size sliding doors)



PXIPS elements 3-ply and 5-ply



PSIPX plywood

HDF|MDF

HDF|MDF

Poplar or albasia plywood

Polystyrene:
frame made of albasia and
laminated wood

Polystyrene:
200-600 kPa compression
strength (on request)

Polystyrene:
200-600 kPa compression
strength (on request)

Individual

5,200 | 2,600 x 2,050
2,600 x 2,050

2,490 x 1,800 (poplar)
2,480 x 1,220 (albasia)

On request

On request

On request

From 40

19 - 100 | 3-ply
38 - 100 | 5-ply

19 - 100

Approx. 300

Approx. 150 - 250

Approx. 150

Weights PSIPX elements (approx. in kg/m²)

19 mm	19 mm*	22 mm	22 mm*	25 mm	28 mm	32 mm	35 mm	38 mm	45 mm
5.07	3.36	5.19	3.48	5.31	5.43	5.59	5.71	5.83	6.11

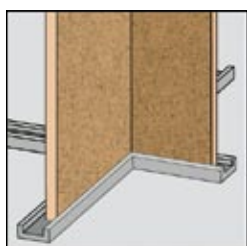
* 2.1 mm HDF

Weights ST Light fuma and ST Light HDF (approx. in kg/m²)

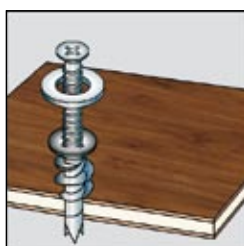
	13 mm	16 mm	19 mm	22 mm	25 mm	28 mm	30 mm	38 mm	40 mm	42 mm
ST Light fuma	4.16	5.12	6.08	7.04	8.00	8.96	9.60	12.16	12.80	13.44
ST Light HDF	6.11	8.80	9.73	10.67	11.63	12.60	13.20	15.77	16.40	17.01

Materials in weight comparison (approx. in kg/m³)

ST Light fuma 320	MDF 800	Chipboard 700	OSB 580	Blockboard (ST) 450	PSIPX elements 250
-----------------------------	------------	------------------	------------	-------------------------------	------------------------------



Dividing wall structures



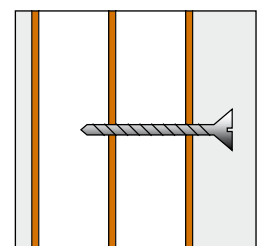
Reliable connections



Free-form blank cutting



Table designs



Reliable screw connections
(5-ply structure)

SWL Light – special compositions

SWL Painter's board®



Painter's board



Structure

- ST Light fuma with primer paper (110 g)

Weight (kg/m³) Approx. 320

Standard formats (mm) 5,200 | 2,600 x 2,050

Thicknesses (mm) 13 - 38 from 60 mm on request

SWL Door + table board



Door + table board

Structure

- ST Light HDF with primer film
- Harder surface
- Also available painted

Weight (kg/m³) Approx. 390

Standard formats (mm) 5,200 | 2,600 x 2,050

Thicknesses (mm) 13 - 50 from 60 mm on request

PS/PX elements are also available with pre-primed surfaces. Contact us!

SWL Multiplex Light



Multiplex Light

Structure

- Plywood made of fully-bonded albasia rotary cut veneers (AW 100)

Weight (kg/m³) Approx. 300

Standard formats (mm) 2,500 x 1,220 | 1,250

Thicknesses (mm) 3 - 27

SWL ST Light combply



ST Light combply

Structure

- Crossband made of light plywood
- Very strong and smooth surface
- Sealed surface

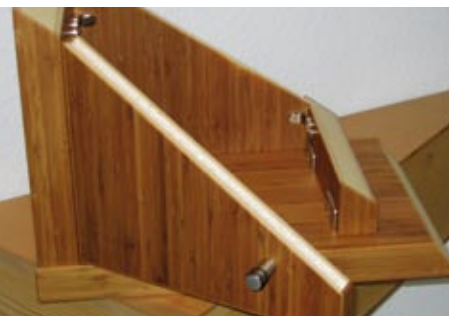
Weight (kg/m³) Approx. 350

Standard formats (mm) 2,500 | 2,480 x 1,220

Thicknesses (mm) 16 - 38

SWL Light – lightweight solutions

SWL furniture made of PSIPX elements – processing examples



PSIPX elements

Connections

Häfele iXconnect series,
Fischer GKM

Applied pressure

Max. 3 kg/cm²
(not more than 60 °C)

Bonding

IF 20 (other bonding
available)

Bevelling

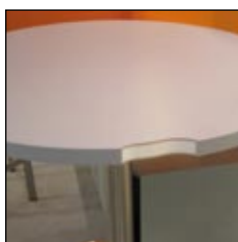
- Observe top pressure
- Standard temperature
- Min. edge thickness: 2 mm



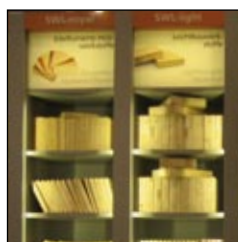
SWL exhibition stand construction with ingenious lightweights!



ST Light fuma:
finger-jointed for
round tables



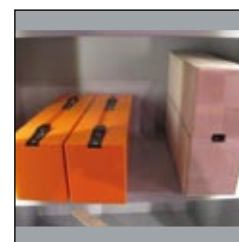
PSIPX HDF: for table
designs, edge cut out
for illustration



ST Light HDF:
70s column shelf
system (carcasses);
Door+ Table: shelves



Painter's board:
shelves and interior
constructions



Connections with
Keku® fittings





SWL Tischlerplatten Betriebs-GmbH

Lippstädter Str. 4
D - 33449 Langenberg

Phone +49 (0) 52 48 15 09 - 0

Fax +49 (0) 52 48 15 91

Internet www.s-w-l.com

E-mail info@s-w-l.com

Your specialist supplier



MERTON A/S · Lillehøjvej 10 · DK-8600 Silkeborg
Tlf. +45 86 80 13 44 · www.merton.dk