



# SANDWICHELEMENT

## Top / Top Phon – Alu/Alu

# Product Information

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### Description:

Top sandwich elements consist of an extruded polystyrene core and 0.72 mm aluminium top layers on both faces. Both long sides have bevels of about 6 mm. Top Phon with 3.0 mm sound-absorbing inserts reduces the sound of rain on the roof by a multiple. The composite element is covered with a protective foil on both sides.

### Properties:

- good sound insulation values
- UV-endurance
- optimum load-bearing capacity
- lightweight
- easy to process with the usual metalworking tools

### Facings:

Smooth aluminium 0.72 mm on both sides. Surface coating: polyester paint.

Standard colours: RAL 9010 - white, RAL 7024 - Graphite grey, RAL 8004 - Copper brown, roussillon / rot patterned, zinc.

### Core Material:

Extruded polystyrene foam, CFC-free or CO<sub>2</sub> foamed, low vapour permeability, lowest water absorbance, Fire protection class E according to EN 13501-1. The foam core is corrugated for optimum adhesion. No dust release during processing. Core material of different thermal conductivity  $\lambda$ D-value 0.029 - 0.035 is available. Stadur Top Phon with 3.0 mm sound-absorbing inserts reduces the sound of rain on the roof by a multiple.

**Top Phon HP:** heavy sound insulation insert of 700 kg/m<sup>3</sup> | **Top Phon SW:** light sound insulation insert of 80 kg/m<sup>3</sup>

### Formats:

Width: 1200 mm – Length: 3000 mm / 3500 mm / 4000 mm / 4500 mm / 5000 mm / 6000 mm / 7000 mm / 7500 mm

Other formats and fixed formats are available on request.

Overall Thickness	Type	U-Value ( $\lambda$ D 0,029)	U-Value ( $\lambda$ D 0,033)	R-Value ( $\lambda$ D 0,029)	R-Value ( $\lambda$ D 0,033)	Weight (kg/m <sup>2</sup> )	dB Value*
16 mm	Top	1.46	1.60	0.52	0.45	4.88	-
32 mm	Top	0.81	0.90	1.07	0.94	5.41	64.3
52 mm	Top	0.52	0.58	1.76	1.55	6.07	67
32 mm	Top Phon HP	0.86	0.96	0.99	0.88	7.51	58.5
55 mm	Top Phon HP	0.51	0.57	1.79	1.57	8.27	60.9
65 mm	Top Phon HP	0.44	0.49	2.13	1.88	8.00	-
85 mm	Top Phon HP	0.33	0.38	2.82	2.48	9.26	-
32 mm	Top Phon SW	0.84	0.91	1.03	0.927	5.65	-
55 mm	Top Phon SW	0.50	0.56	1.82	1.61	5.81	-
65 mm	Top Phon SW	0.43	0.48	2.16	1.91	6.74	-
85 mm	Top Phon SW	0.33	0.37	2.85	2.51	7.40	-

\* Testing of dB values in accordance with DIN EN ISO 140-18 impact sound insulation of roofs.

### Special Elements:

Edge finishing of the foam core as a stepped rebate or tongue and groove is possible. Milling a lateral groove in the foam is possible from an element thickness of 52 mm.

### Areas of Application:

Conservatory construction, shed roof glazing, overhanging roofs e.g. street cafés or carports, large advertising hoardings, porches for industrial buildings and shop passages

### Note:

When laying Stadur Top, point loads (such as kneeling on it) should be avoided. For further information please refer to our brochure: Processing Instructions.

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