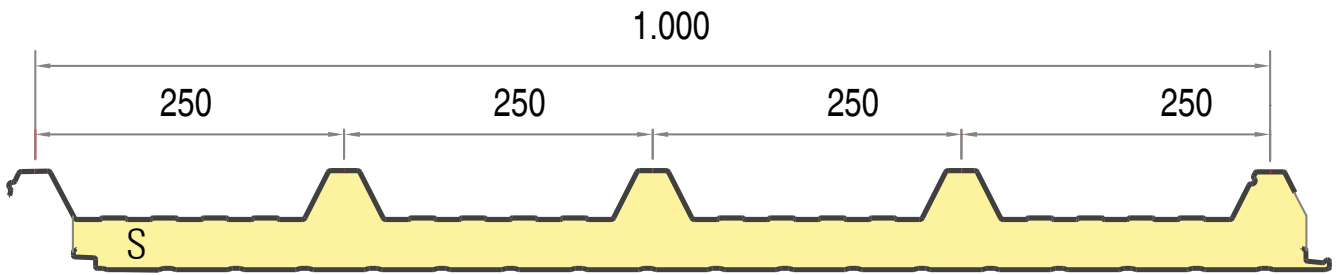
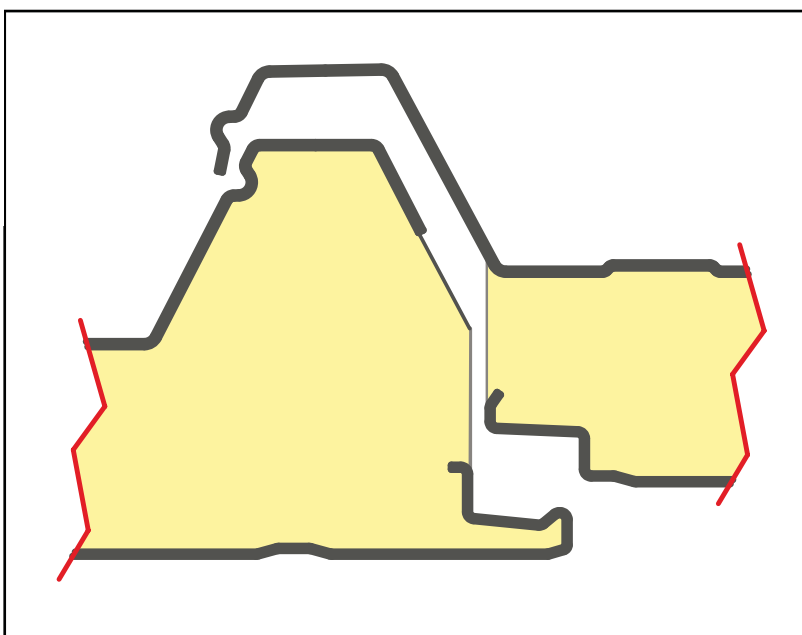


Alutech Dach

TECHNICAL DATA SHEET

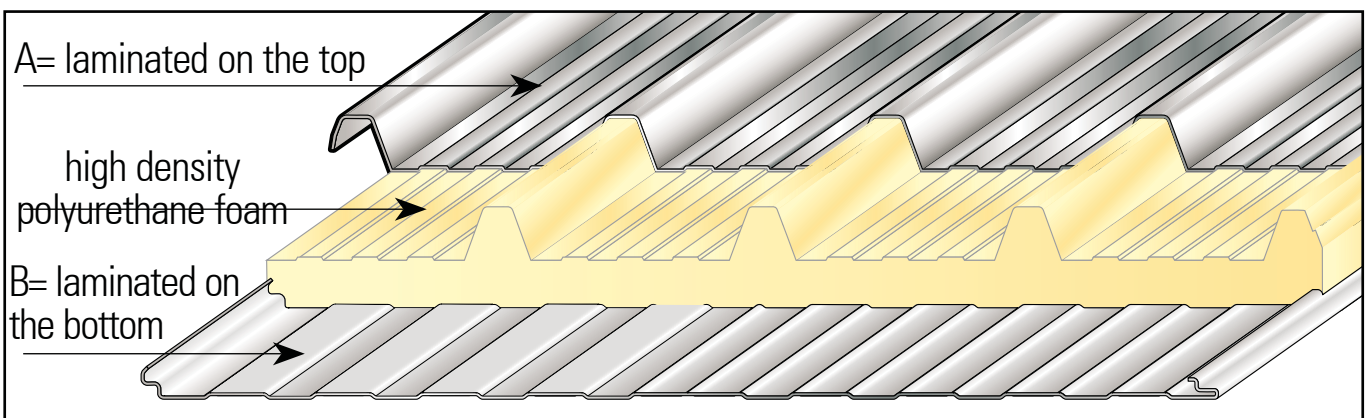


S=30-40-50-60-80-100 mm



VERSIONS

- A) Prepainted aluminium
- B) Prepainted aluminium
- A) Prepainted aluminium
- B) Felt paper or centesimal aluminium
- A) Prepainted galvanised steel
- B) Prepainted galvanised steel
- A) Copper
- B) Prepainted galvanised steel
- A) Prepainted galvanised steel
- B) Felt paper



Alutech is the system with high density polyurethane foam insulated sandwich panels, designed for covering and cladding the perimeter walls of houses and industrial constructions. Alutech Dach, with highly prominent corrugations, far apart one from the other, has been designed for building heat insulated roofing and offers high mechanical strength to stress and concentrated loads.

Alutech Dach

PERMITTED LOAD CAPACITIES [kg/m²]

ALUTECH DACH panel (roofing) consisting of:

- A laminated on the top in steel, 0,5 mm thick
- B laminated on the bottom in steel 0,4 mm thick

gap (m)	Panel thickness (mm) without the corrugation					
	30	40	50	60	80	100
2	235	297	360	423	760	-
2,5	186	232	278	324	592	-
3	143	176	209	243	332	358
3,5	104	129	154	178	224	296
4	70	90	111	131	184	227
4,5	-	-	-	102	147	194
5	-	-	-	89	108	138

PERMITTED LOAD CAPACITIES [kg/m²]

ALUTECH DACH panel (roofing) consisting of:

- A laminated on the top in aluminium, 0,7 mm thick
- B laminated on the bottom in steel 0,4 mm thick

Gap (m)	Panel thickness (mm) without the corrugation			
	30	40	50	60
1	653	-	-	-
1,5	409	452	495	537
2	238	287	336	386
2,5	140	183	226	269
3	114	138	162	187
3,5	-	-	-	139

Load uniformly distributed expressed in kg/m² for double span and downward loads.

Assessments as per the ICITE technical report number 3273/RT/00

The contents of this calculation table are to be considered approximate and purely indicative. The structural calculation is the task of the designer and/or user in each single case that also has to determine the application design specifications for the roofing in question

Alutech Dach

TECHNICAL DATA SHEET

WEIGHT OF THE PREPAINTED GALVANISED STEEL PANELS [kg/m²]

Sheet thickness	Panel thickness (mm) without the corrugation					
	30	40	50	60	80	100
(mm)	kg/m ²	kg/m ²	kg/m ²	kg/m ²	kg/m ²	kg/m ²
0,4	8,6	8,9	9,4	9,8	10,6	11,4
0,5 - 0,4	9,6	10	10,4	10,8	11,5	12,4
0,5	10,4	10,8	11,2	11,6	12,4	13,2

WEIGHT OF THE ALUMINIUM AND STEEL PANELS [kg/m²]

Sheet thickness	Panel thickness (mm) without the corrugation					
	30	40	50	60	80	100
(mm)	kg/m ²	kg/m ²	kg/m ²	kg/m ²	kg/m ²	kg/m ²
All. 0,6 - Acc. 0,4	6,6	7,0	7,4	7,8	8,6	9,4
All. 0,7 - Acc. 0,4	6,9	7,3	7,7	8,1	8,9	9,7
All. 0,7 - Acc. 0,5	7,8	8,2	8,6	9,0	9,8	10,6

HEAT INSULATION

U	Panel thickness (mm) without the corrugation					
	30	40	50	60	80	100
W/m ² k	0,692	0,532	0,432	0,364	0,276	0,223

DIMENSIONAL TOLERANCES

	Deviation (mm)
Length	± 10
Useful width	± 2
Thickness	± 2
Orthometry and rectangularity	± 6

Alutech Dach

MINIMUM SUGGESTED THICKNESSES CONSIDERING INSULATION THICKNESS

Panel thickness (mm)	Panels with lenght lower than 8 m				
	Steel / Steel	Steel / Felt paper	Aluminium / Steel	Aluminium / Aluminium	Aluminium / Felt paper
30	-	0,4	0,6 / 0,4	0,6 / 0,5	0,6
40	-	0,4	0,6 / 0,4	0,6 / 0,5	0,6
50	-	0,4	0,6 / 0,4	0,6 / 0,5	0,6
60	-	0,5	0,6 / 0,4	0,6 / 0,6 0,7 / 0,5	0,6
80	0,5 / 0,5	0,5	0,6 / 0,5 0,7 / 0,4	0,6 / 0,6 0,7 / 0,5	0,7
100	0,5 / 0,5	0,6	0,7 / 0,5	0,7 / 0,6	0,7

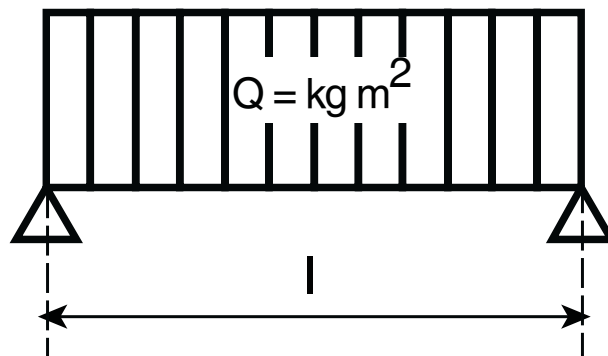
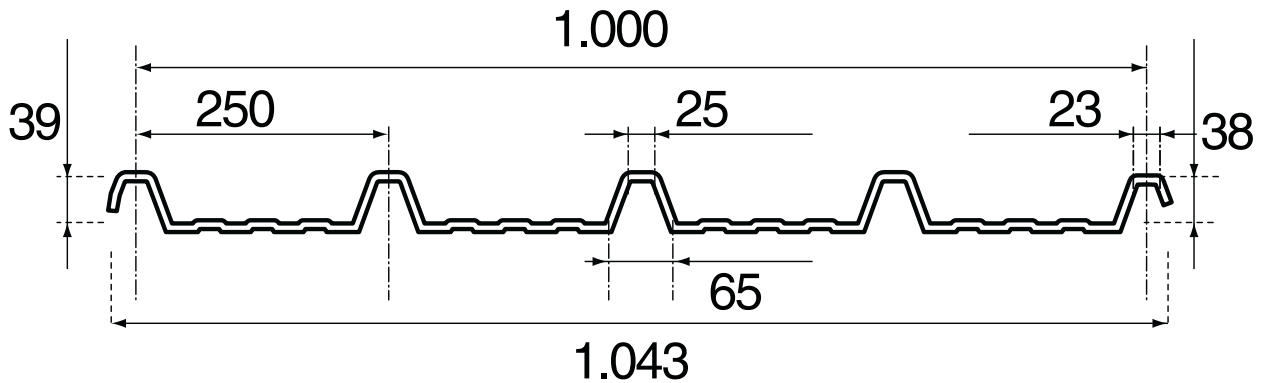
MINIMUM SUGGESTED THICKNESSES CONSIDERING INSULATION THICKNESS

Panel thickness (mm)	Panels with lenght higher than 8 m				
	Steel / Steel	Steel / Felt Paper	Aluminium / Steel	Aluminium / Aluminium	Aluminium / Felt Paper
30	-	0,4	0,6 / 0,4	0,6 / 0,5	0,6
40	-	0,4	0,6 / 0,4	0,6 / 0,5	0,6
50	-	0,4	0,6 / 0,4	0,6 / 0,5	0,6
60	0,5 / 0,4	0,5	0,6 / 0,5 0,7 / 0,4	0,6 / 0,6 0,7 / 0,5	0,6
80	0,5 / 0,5	0,5	0,7 / 0,5	0,6 / 0,6 0,7 / 0,5	0,7
100	0,5 / 0,5	0,6	0,8 / 0,5	0,8 / 0,7	0,8

The first value shows thickness of upper sheet, while the second value states thickness of lower sheet. In case of use of lower thicknesses compared to values above stated, Alubel cannot assure the proper behaviour to stress by transport, handling, lifting and other.

Alutech Dach

TRANSLUCENT FIBREGLASS SHEET



Q = uniformly distributed load
 l = centre distance between the supports

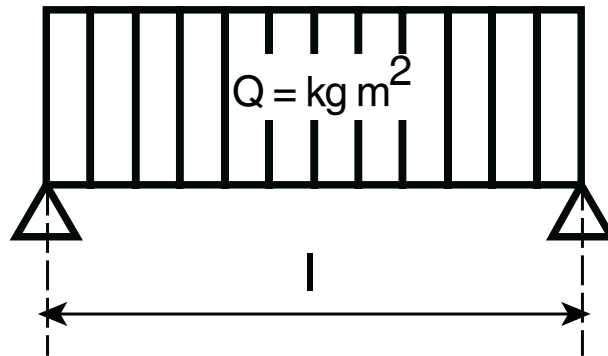
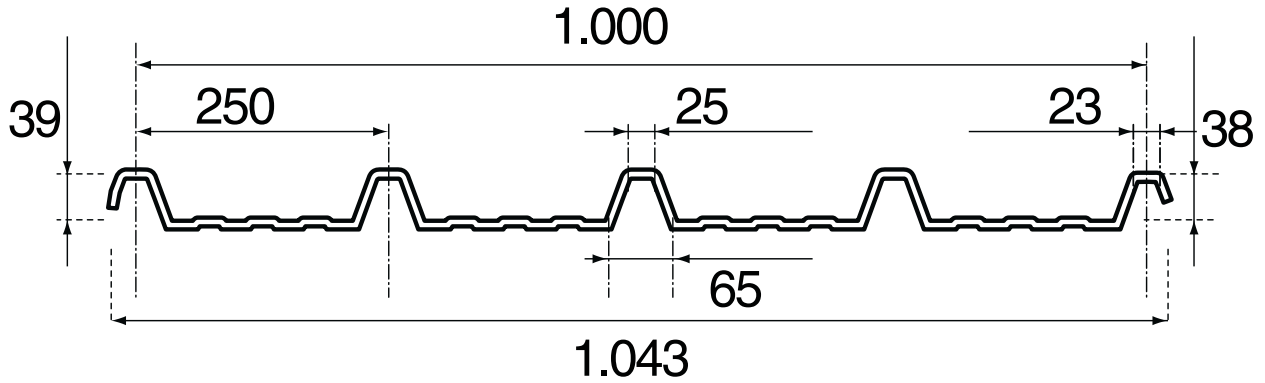
PERMITTED LOAD CAPACITIES [kg/m²] safety factor Ks =2,5

centre distances (m)	0,80	1,0	1,20	1,40	1,60	1,80
TYPE						
150	109	90	70	56	47	41
170	135	103	85	70	58	50
210	175	138	115	74	79	69
250	220	172	141	119	95	88
300	276	216	172	150	126	112

The contents of this calculation table are to be considered approximate and purely indicative. The structural calculation is the task of the designer and/or user in each single case that also has to determine the application design specifications for the roofing in question.

Alutech Dach

COMPACT POLYCARBONATE SHEET



Q = uniformly distributed load
l = centre distance between the supports

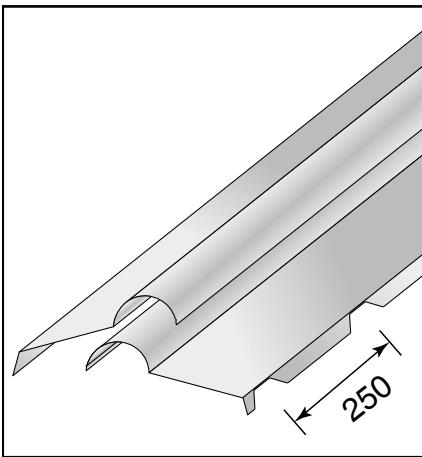
PERMITTED LOAD CAPACITIES

thickness	1 mm	1,2 mm
	max supports centre distance (mm)	max supports centre distance (mm)
Permitted load (kg/m ²)		
50	1300	1350
80	1250	1300
110	1200	1250

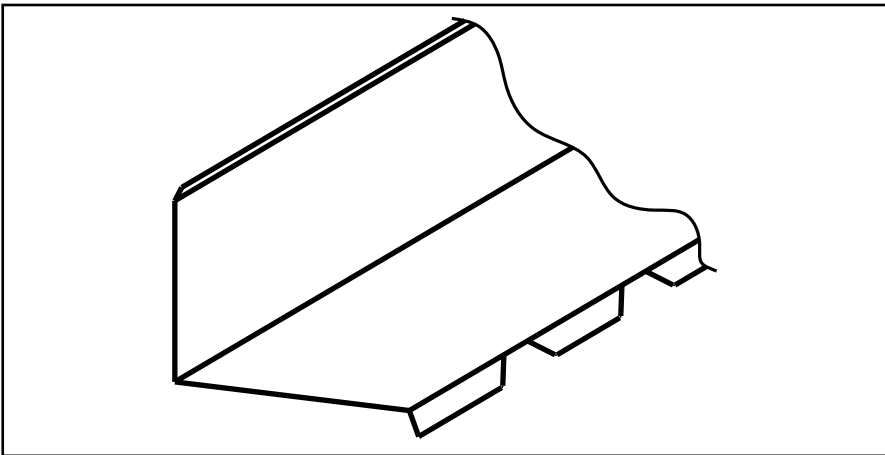
The contents of this calculation table are to be considered approximate and purely indicative. The structural calculation is the task of the designer and/or user in each single case that also has to determine the application design specifications for the roofing in question.

Alutech Dach

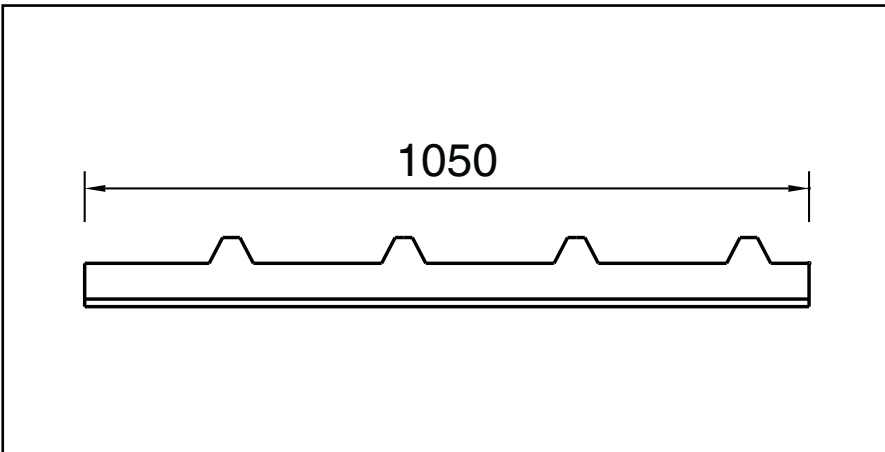
ACCESSORIES



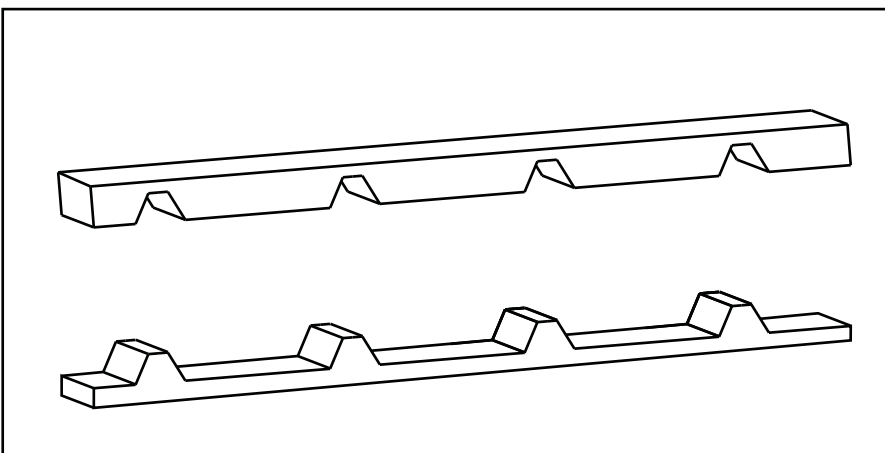
Notched, hinged vertex ridge
total development 834 mm
length 3250 mm



Notched wall/pitch connection



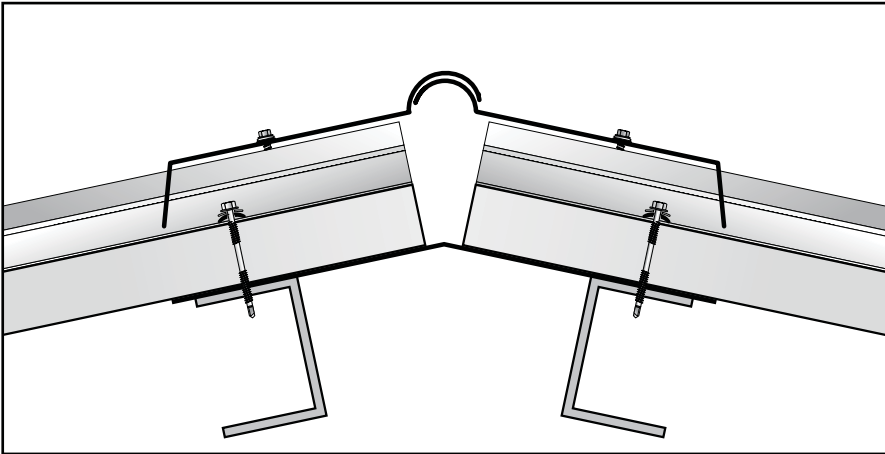
Corrugation closing element



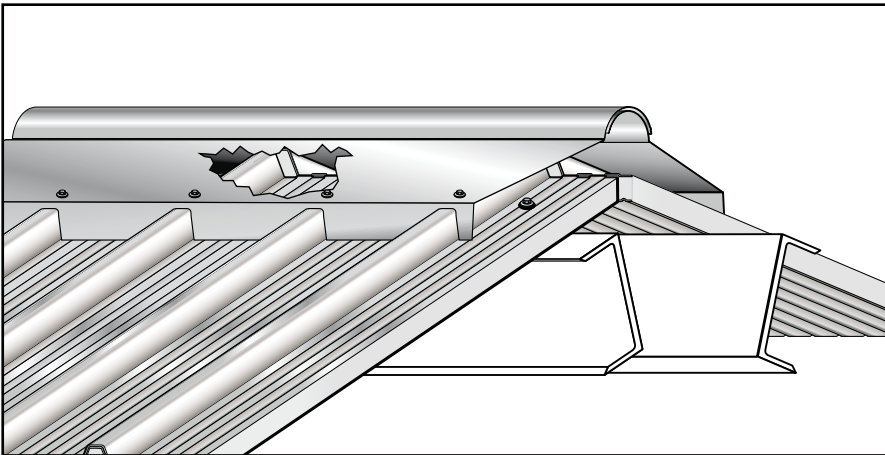
Over corrugation profile

Under corrugation profile

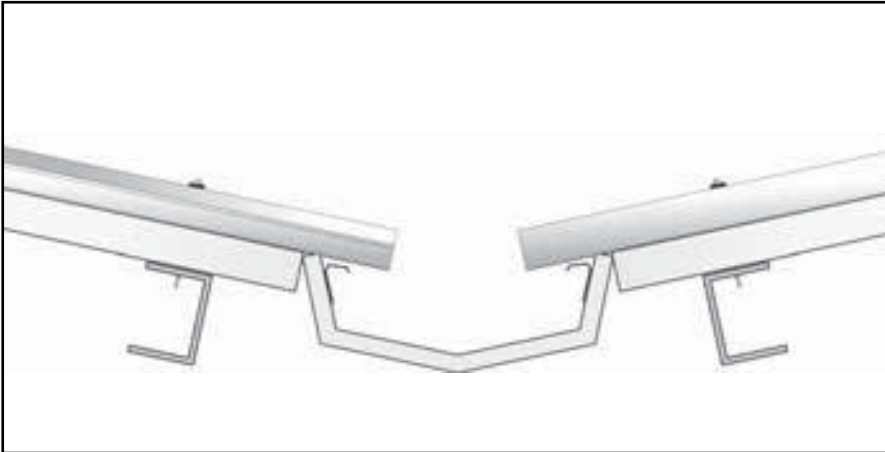
Alutech Dach



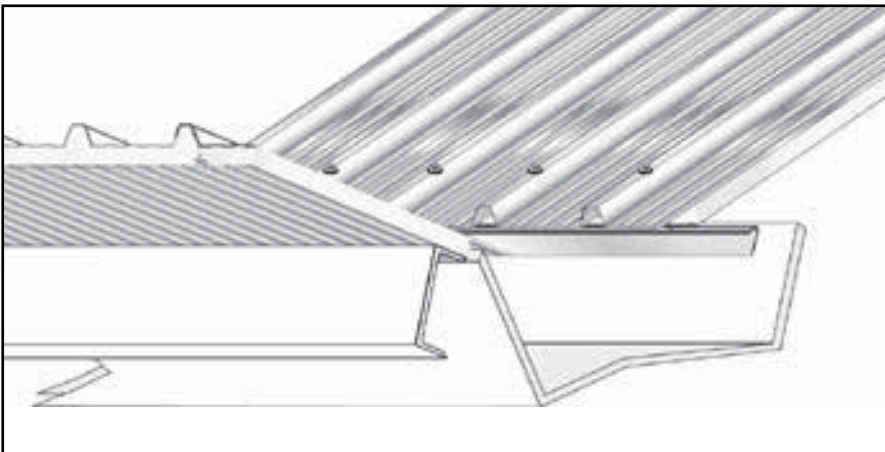
Dach ridge section



Dach ridge



Dach converse section



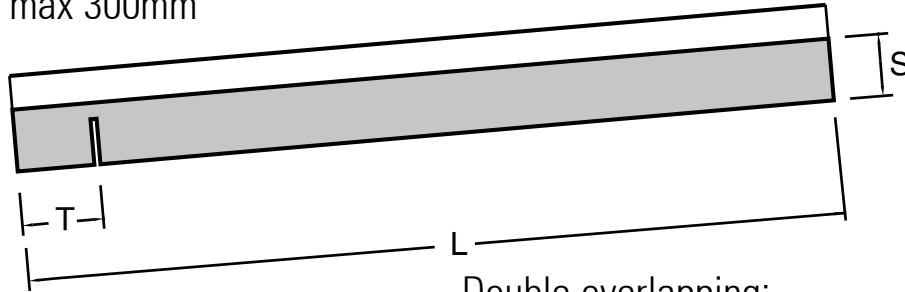
Dach converse

Alutech Dach

TOOLING

PANELS FOR THE HEAD OVERLAP PREPARED FOR CUTTING

T= min 100mm max 300mm

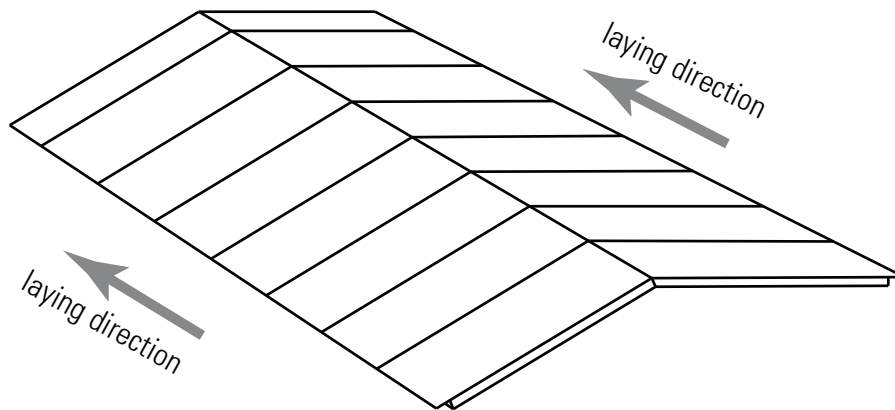
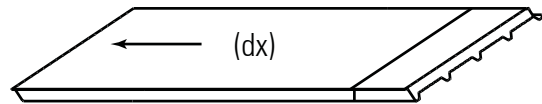
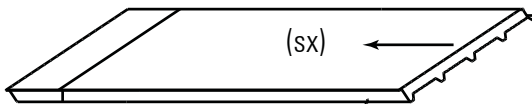
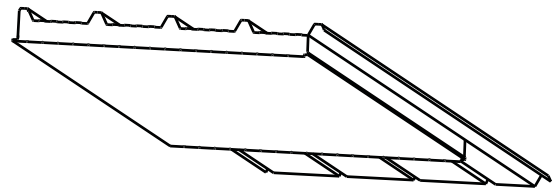
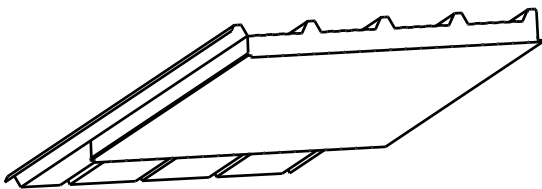


Double overlapping:
 - min. length 4500 mm
 - max. length: 13500 mm

S= 30-40-50-60-80-100 mm

L= min 3500 mm max 13500 mm

T= standard measurements 100-150-200-250-300 mm



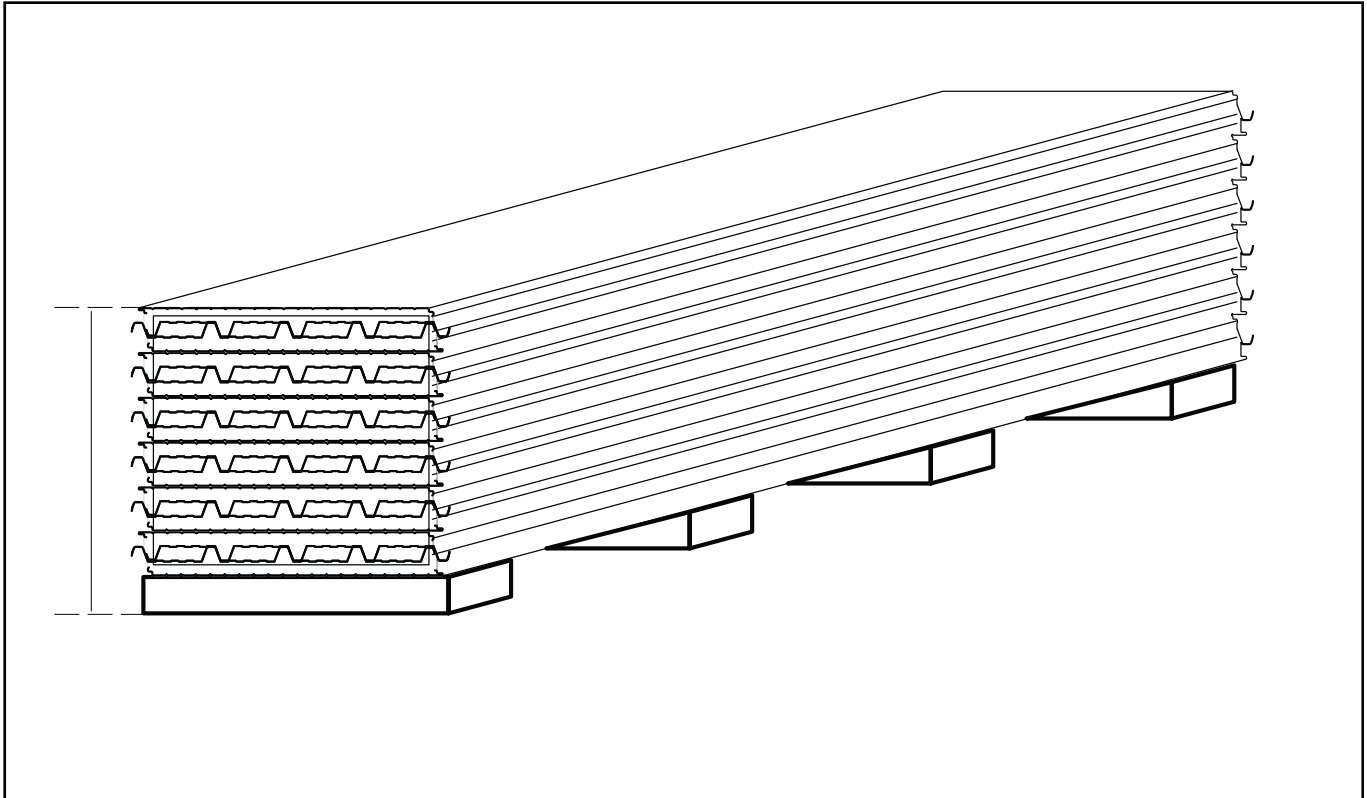
PLEASE NOTE: as far as the standard production of non "pre-cut" panels for the overlap are concerned, the minimum length is 2500 mm

Please note that as things stand today the Alutech Dach panel production plant cannot guarantee correct positioning of the adhesive tape that makes it easier to remove the layer of polyurethane foam from the metal laminate. Pre-cutting of the polyurethane foam is, however, guaranteed. Cleaning is always the responsibility and at the expense of the customer.

Alutech Dach

STORAGE

TRANSPORT AND STORAGE



QUANTITY ON ONE PALLET

Panel thickness (mm)	No. panels	Pallet height*
30	14	80 cm
40	12	80 cm
50	10	80 cm
60	8	72 cm
80	8	88 cm
100	6	80 cm

* polystyrene spacer included

Alutech Dach

OVERLAPPING VALUES

INSTALLATION INSTRUCTIONS

