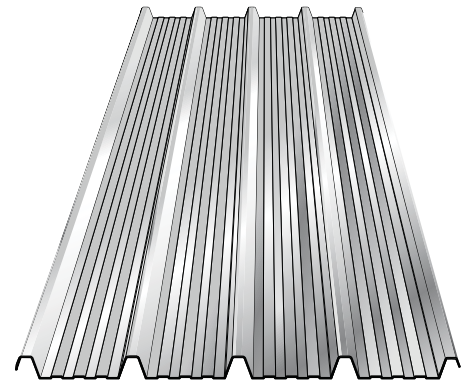
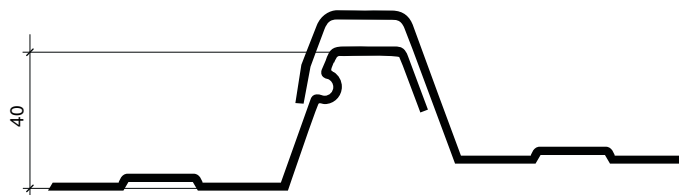
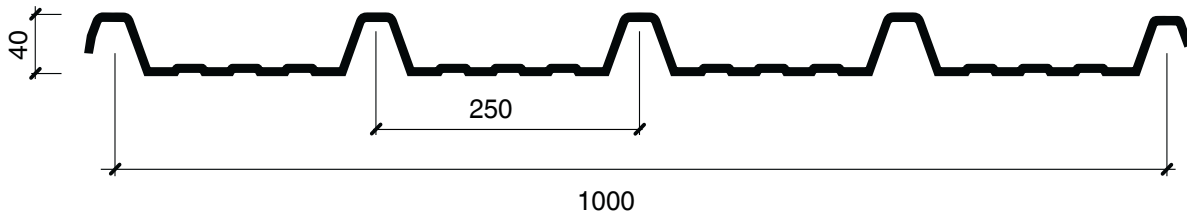


**PROFILO**  
*Dach*

# Dach profile

Made in: **Aluminium**

TECHNICAL DATA SHEET



## TECHNICAL SPECIFICATIONS OF THE ALUMINIUM DACH PROFILE

s	p	J	W	EJ	M max	<b>Symbols</b> s = sheet thickness p = unit weight J = moment of inertia W = modulus of bending resistance EJ = bending stiffness M max = permitted bending moment ( $\sigma_{perm.} = 6,5 \text{ kN/cm}^2$ ) i = centre distance between supports $\sigma_{perm.}$ = unit safety load $f_{perm.}$ = maximum permitted straining
[mm]	[kg/m <sup>2</sup> ]	[cm <sup>4</sup> /m]	[cm <sup>3</sup> /m]	[kN cm <sup>2</sup> /m]	[kN cm/m]	
0,6	1,97	7,01	3,55	100.660	26,62	
0,7	2,30	8,83	4,42	117.390	33,15	
0,8	2,63	10,55	5,15	134.196	38,62	
1,0	3,29	14,23	6,63	167.720	49,72	

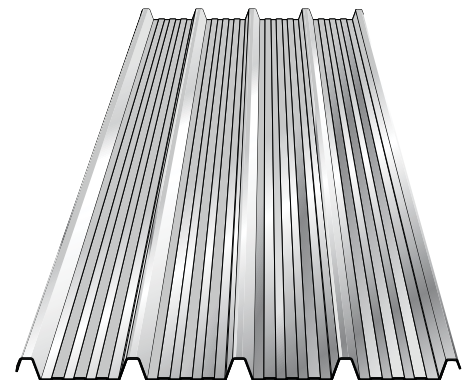
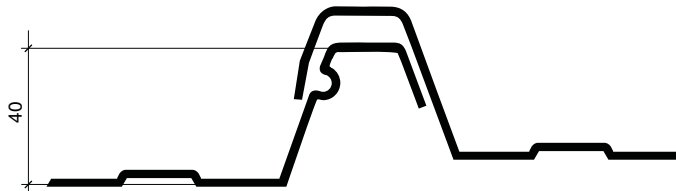
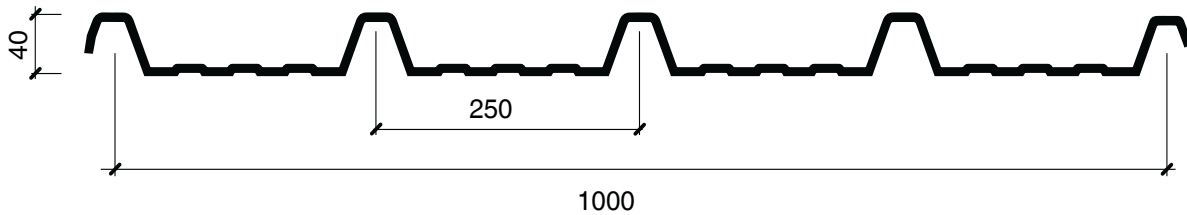
## PERMITTED UNIFORM LOAD [kg/m<sup>2</sup>] ON 4 SUPPORTS ALUM. DACH PROFILE\*

i [m]	1,00		1,25		1,50		1,75		2,00	
	$\sigma_{perm}$	$f_{perm}$	$\sigma_{perm}$	$f_{perm}$	$\sigma_{perm}$	$f_{perm}$	$\sigma_{perm}$	$f_{perm}$	$\sigma_{perm}$	$f_{perm}$
0,6	266	644	170	330	119	191	87	120	67	81
0,7	331	751	212	385	147	223	108	140	83	94
0,8	386	859	247	440	172	254	126	160	97	107
1,0	497	1073	318	550	221	318	162	200	124	134

\*(it is calculated in the dual hypothesis of  $\sigma_{perm.} = 750 \text{ daN/cm}^2$  and  $f_{perm.} = i/200$ )

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

# Dach profile

 Made in: **Steel**


TECHNICAL DATA SHEET

## TECHNICAL SPECIFICATIONS OF THE DACH PROFILE

s	p	J	W	EJ	M max	<b>Symbols</b> s = sheet thickness p = unit weight J = moment of inertia W = modulus of bending resistance EJ = bending stiffness M max = permitted bending moment ( $\sigma_{perm.} = 15,67 \text{ kN/cm}^2$ ) i = centre distance between supports $\sigma_{perm.}$ = unit safety load $f_{perm.}$ = maximum permitted straining
[mm]	[kg/m <sup>2</sup> ]	[cm <sup>4</sup> /m]	[cm <sup>3</sup> /m]	[kN cm <sup>2</sup> /m]	[kN cm/m]	
0,5	4,66	5,25	2,66	251.580	42,56	
0,6	5,59	7,01	3,55	301.980	56,80	
0,7	6,53	8,83	4,42	352.170	70,72	
0,8	7,46	10,55	5,15	402.570	82,40	
1,0	9,33	14,23	6,63	503.160	106,08	

## PERMITTED UNIFORM LOAD [kg/m<sup>2</sup>] ON 4 SUPPORTS STEEL DACH PROFILE\*

i [m]	1,00		1,25		1,50		1,75		2,00		2,25		2,50		2,75		3,00	
s [mm]	$\sigma_{perm}$	$f_{perm}$	$\sigma_{perm}$	$f_{perm}$	$\sigma_{perm}$	$f_{perm}$	$\sigma_{perm}$	$f_{perm}$	$\sigma_{perm}$	$f_{perm}$	$\sigma_{perm}$	$f_{perm}$	$\sigma_{perm}$	$f_{perm}$	$\sigma_{perm}$	$f_{perm}$	$\sigma_{perm}$	$f_{perm}$
0,5	425	1610	272	824	190	477	139	300	106	201	84	141	68	103	56	77	47	60
0,6	568	1933	363	990	253	573	185	361	142	242	112	170	91	124	75	93	63	72
0,7	707	2253	453	1154	314	668	231	421	177	282	140	198	113	144	94	108	79	83
0,8	824	2576	527	1319	366	763	269	481	206	322	163	226	132	165	109	124	92	95
1,0	1061	3220	679	1649	472	954	346	601	265	403	210	283	170	206	140	155	118	119

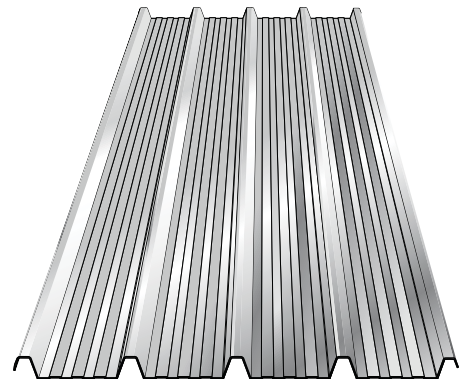
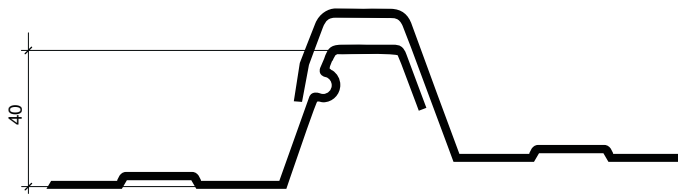
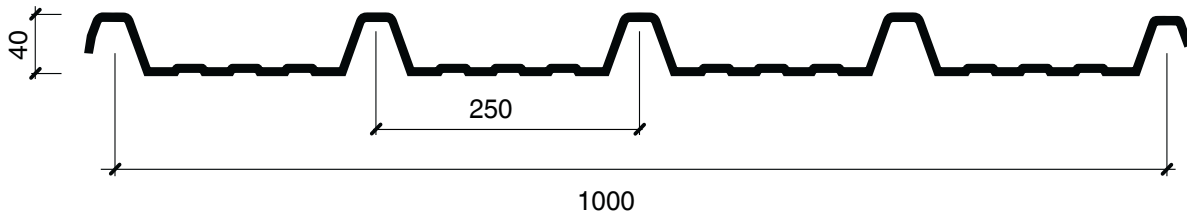
\*(it is calculated in the dual hypothesis of  $\sigma_{perm.} = 1600 \text{ daN/cm}^2$  and  $f_{perm.} = i/200$ )

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

# Dach profile

 Made in: **Copper**

TECHNICAL DATA SHEET



## PERMITTED UNIFORM LOAD [kg/m<sup>2</sup>] ON 4 SUPPORTS COPPER DACH PROFILE\*

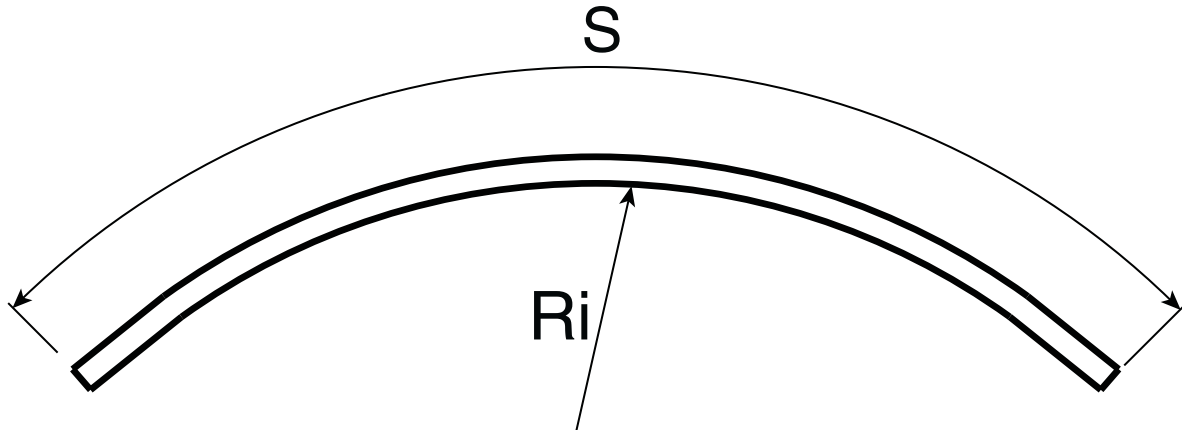
i [m]	1,00		1,25		1,50		1,75		2,00		2,25		2,50		2,75		3,00	
s [mm]	$\sigma_{amm}$	$f_{amm}$	$\sigma_{amm}$	$f_{amm}$	$\sigma_{amm}$	$f_{amm}$	$\sigma_{amm}$	$f_{amm}$	$\sigma_{amm}$	$f_{amm}$	$\sigma_{amm}$	$f_{amm}$	$\sigma_{amm}$	$f_{amm}$	$\sigma_{amm}$	$f_{amm}$	$\sigma_{amm}$	$f_{amm}$
0,6	266	235	170	120	118	79	87	44	66	29	70	28	57	20	47	15	39	12
0,7	355	314	227	161	158	106	116	59	89	39	87	35	71	25	58	19	49	15
0,8	515	473	330	242	229	160	168	88	129	59	102	41	82	30	68	23	57	18
1,0	663	638	424	326	295	215	216	119	166	80	131	56	106	41	88	31	74	24

\*(it is calculated in the dual hypothesis of  $\sigma_{perm.} = 1000 \text{ daN/cm}^2$  and  $f_{perm.} = i/200$ )

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

# Dach profile

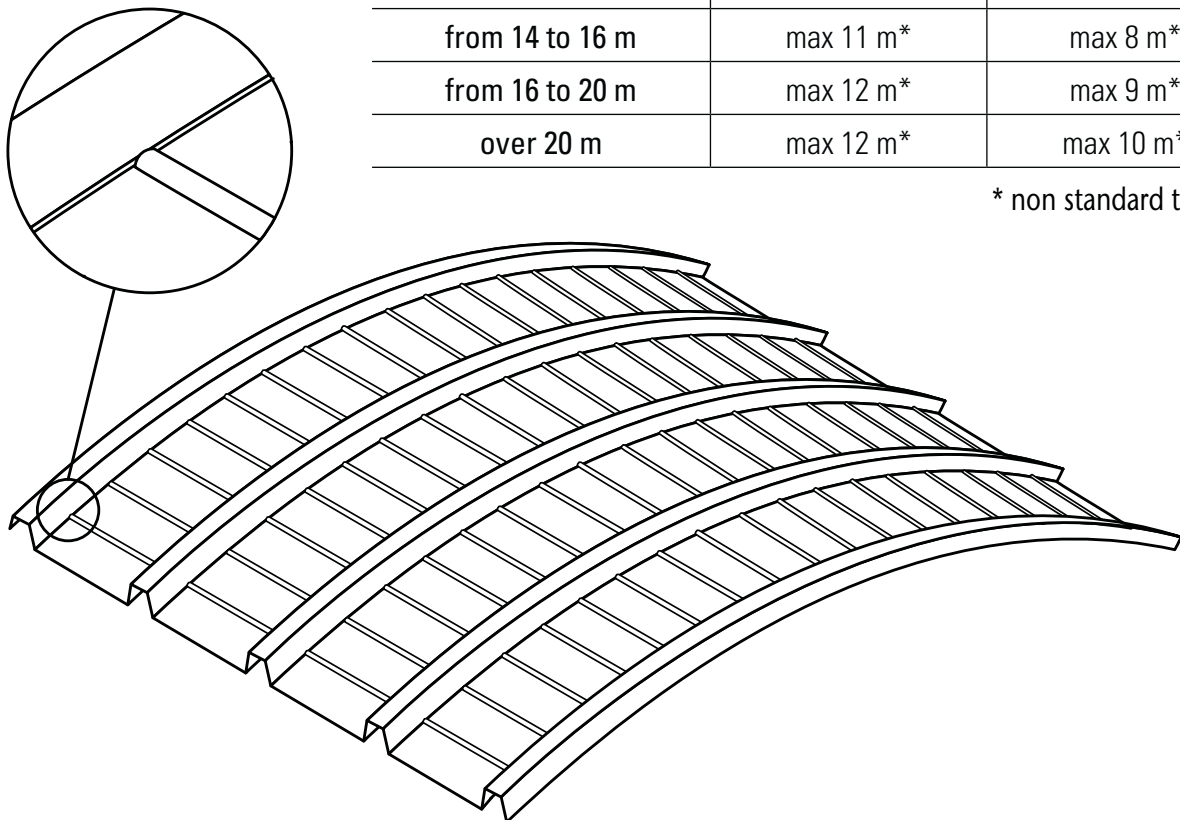
## CURVATURE BY MICRO ROLLER CURVING



## **CURVATURE BY MICRO ROLLER CURVING**

<b>R<sub>i</sub></b>	<b>S max sheet length</b>	
	aluminium	other materials
from 3 to 4 m	max 5 m	max 4 m
from 5 to 6 m	max 7 m	max 6 m
from 6 to 8 m	max 8 m	max 6 m
from 8 to 10 m	max 9 m*	max 6 m
from 10 to 14 m	max 10 m*	max 7 m*
from 14 to 16 m	max 11 m*	max 8 m*
from 16 to 20 m	max 12 m*	max 9 m*
over 20 m	max 12 m*	max 10 m*

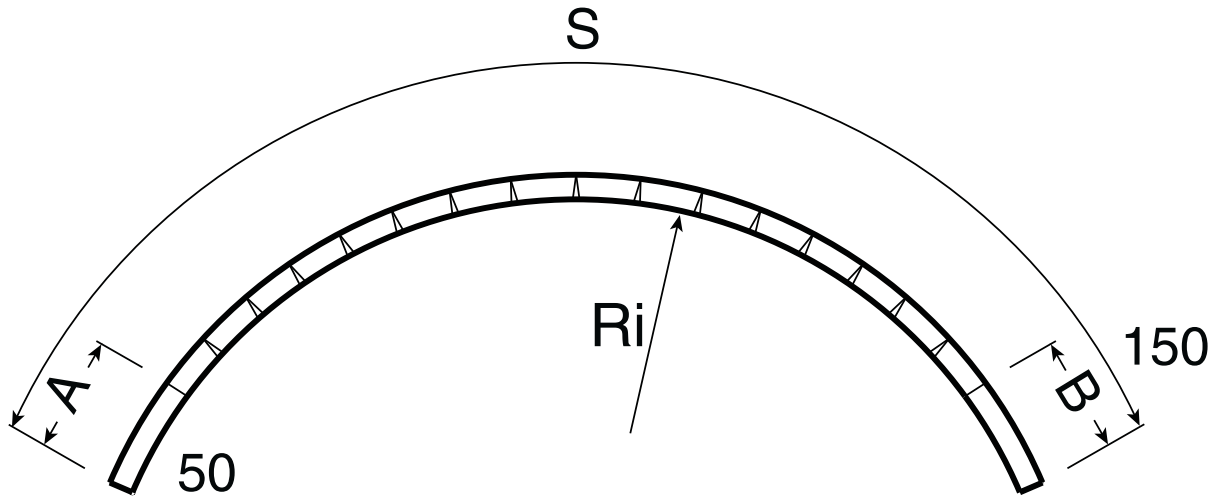
\* non standard toolings



# Dach profile

SHEET TOOLING

## UNIFORM CURVATURE BY NOTCHING

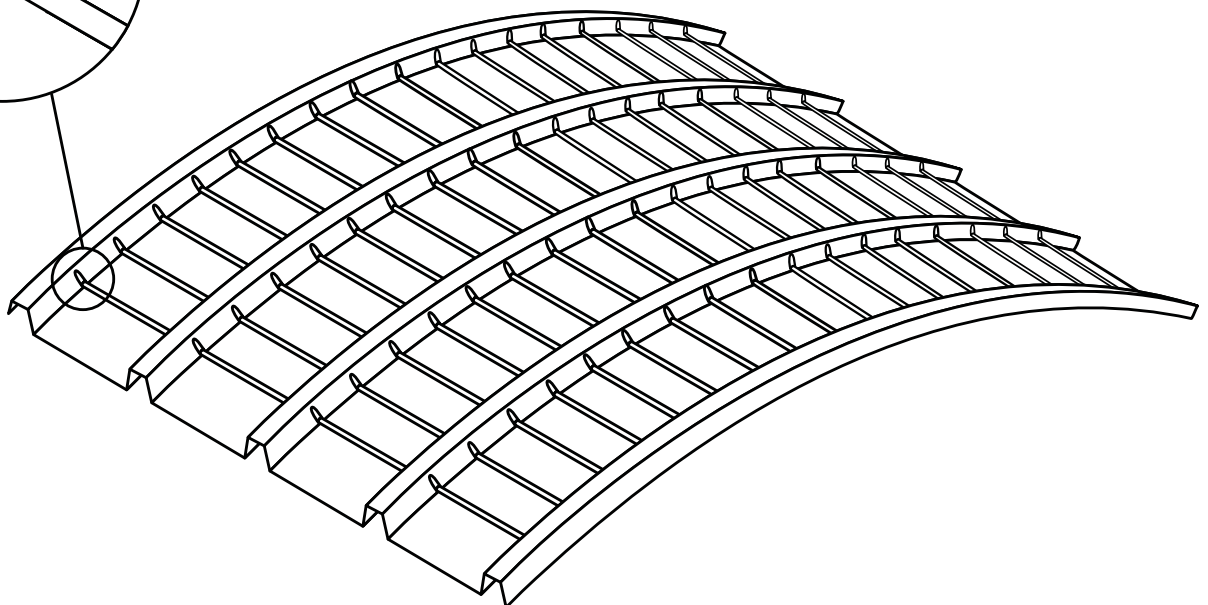
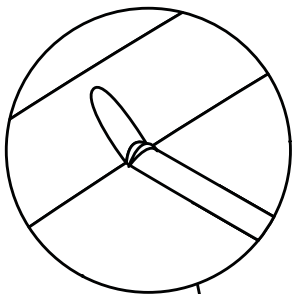


A = min 150 mm  
 B = min 50 mm  
 or  
 A = min 50 mm  
 B = min 150 mm

## UNIFORM CURVATURE BY NOTCHING

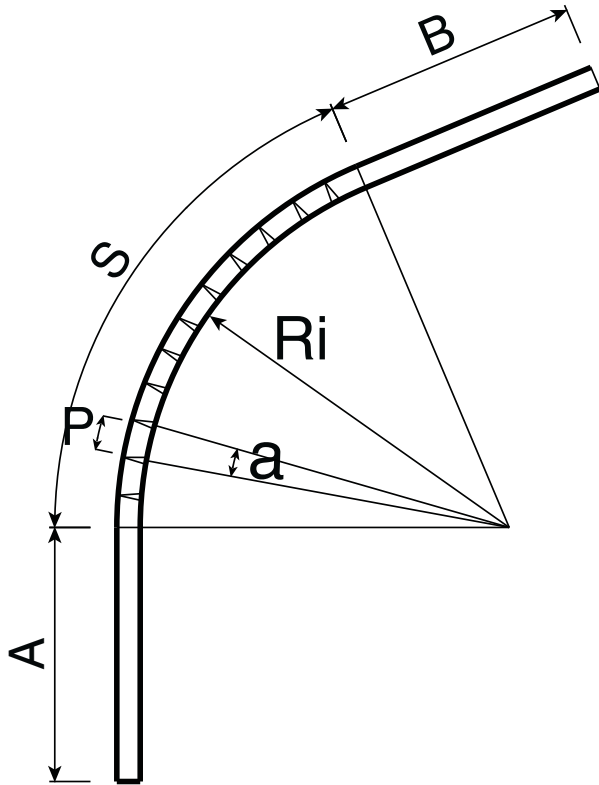
Ri	S max sheet lenhth	
	aluminium	other materials
1 m	max 3 m	max 3 m
from 2 to 3 m	max 4 m	max 4 m
from 3 to 4 m	max 5 m	max 5 m
from 4 to 6 m	max 6 m	max 6 m
from 6 to 7 m	max 8 m	max 8 m*

\* non standard toolings



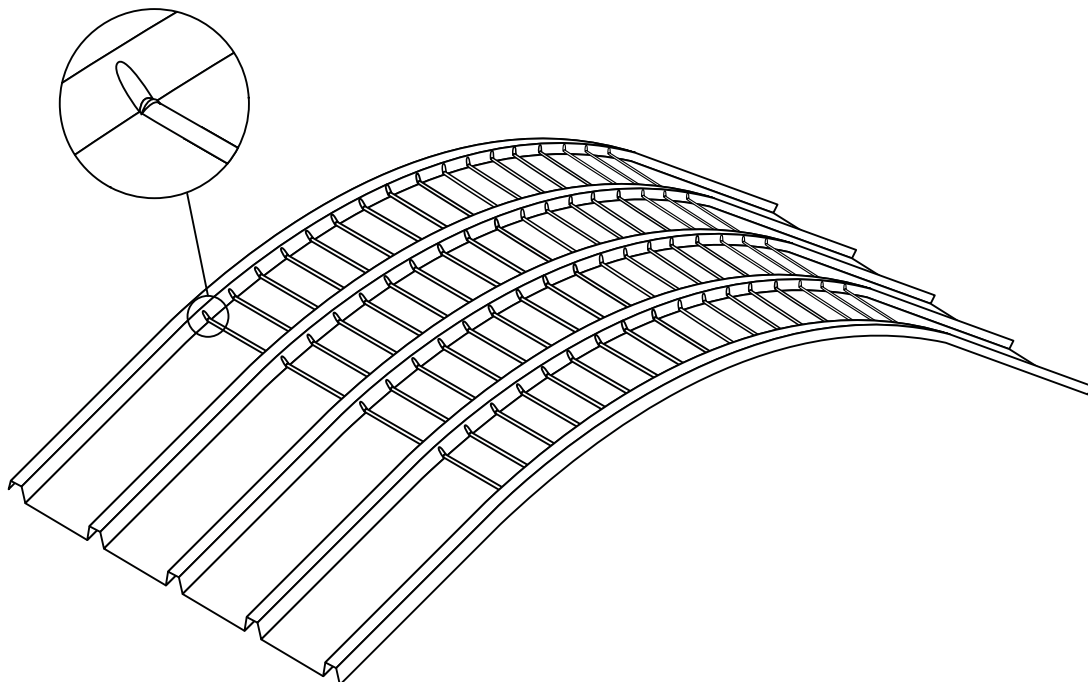
# Dach profile

## PARTIAL CURVATURE BY NOTCHING



Symbols		
A	initial section	min 50 max 2000 mm
B	end section	min 50 max 2000 mm
S	curve development	min 100 mm
A+B+S	total development (aluminium)	max 5000* mm
A+B+S	total development (other materials)	max 5000* mm
Ri	inside radius	min 230 mm
P	impression distance	min 25 mm
a	deflection angle	min 1° max 6°

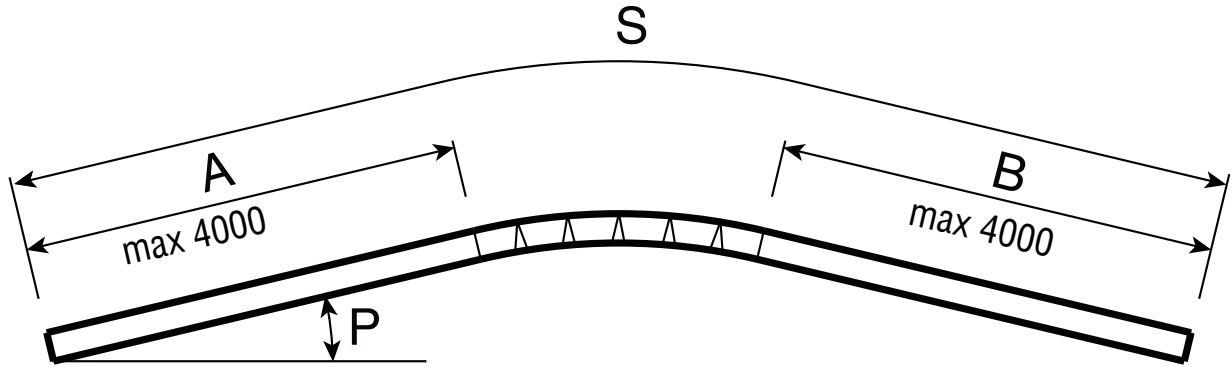
\* total variable development based on the inside radius



# Dach profile

## NOTCHING IN THE MIDDLE

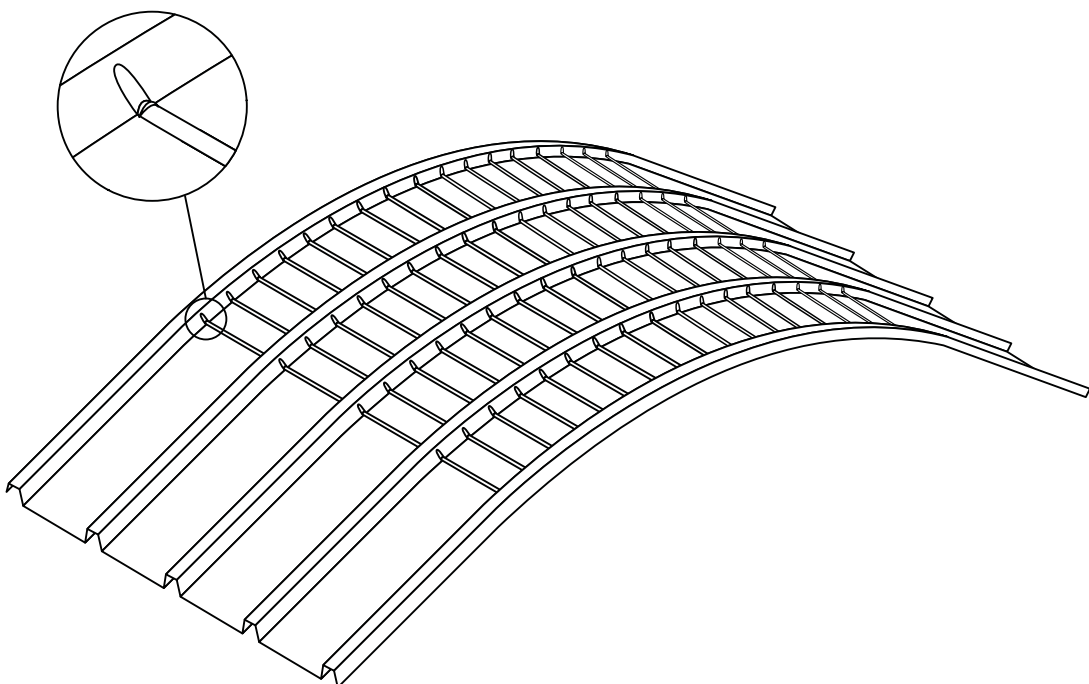
SHEET TOOLING



Sheet curved only in the centre to form the ridge and the joining of two pitches (achieved by means of a set of impressions in the middle of the sheet).

The length of the straight segments A and B varies from a minimum of 50 mm to a maximum of 4000 mm.

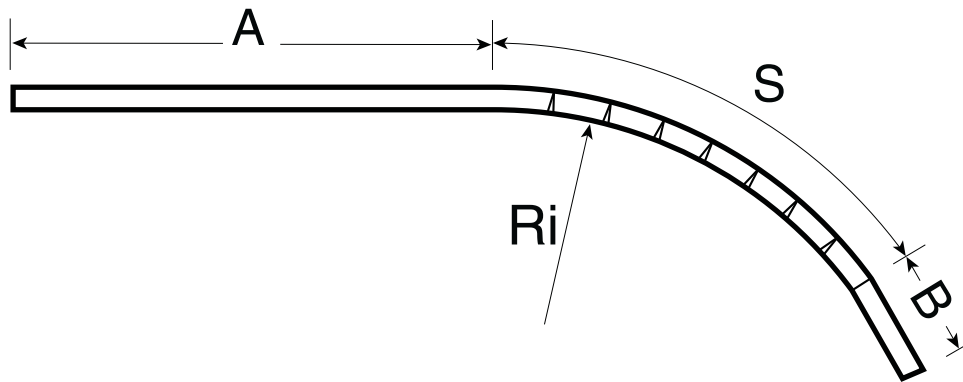
P	S max sheet length	
	aluminium	other materials
from 6 to 12%	max 9 m	max 6 m
from 12 to 15%	max 8 m	max 6 m
from 15 to 20%	max 6 m	max 6 m
from 20 to 25%	max 4 m	max 4 m





# Dach profile

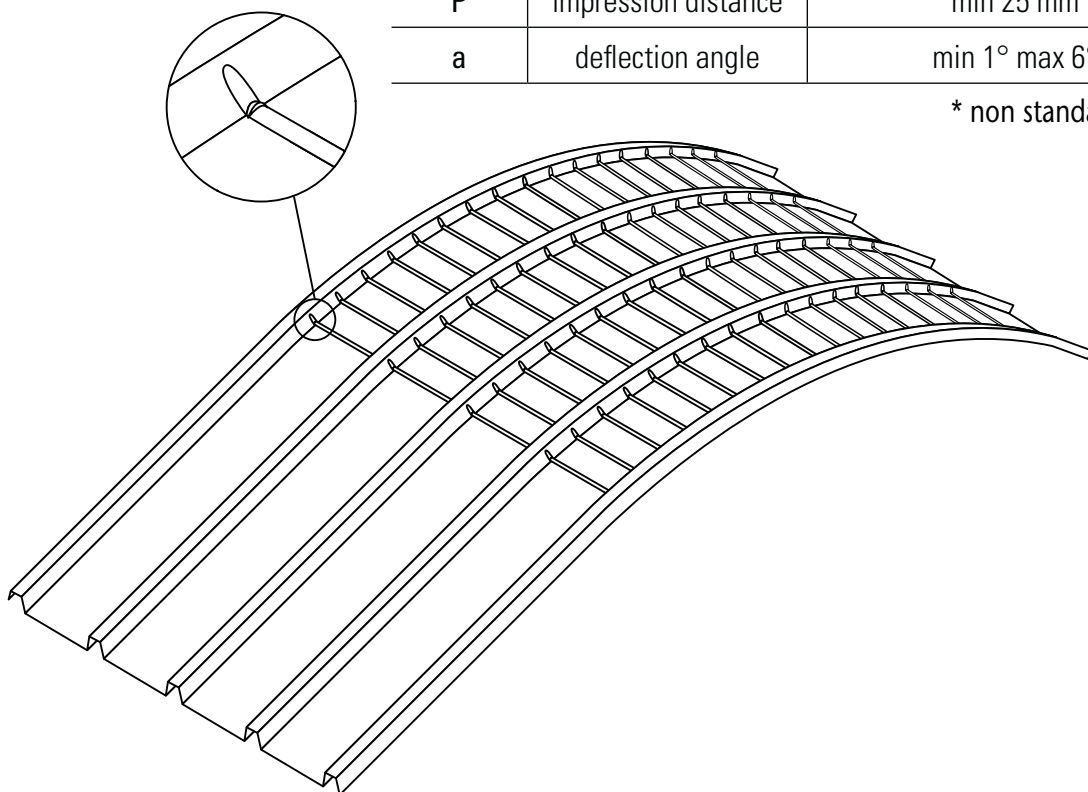
## LATERAL NOTCHING



SHEET TOOLING

Symbols		
A	initial section	min 50 max 2000 mm
B	end section	min 50 max 8000 mm
S	curve development	min 400 mm based on the radius
A+B+S	total development (aluminium)	max 8000 mm
A+B+S	total development (other materials)	max 8000 mm*
Ri	inside radius	min 230 mm
P	impression distance	min 25 mm
a	deflection angle	min 1° max 6°

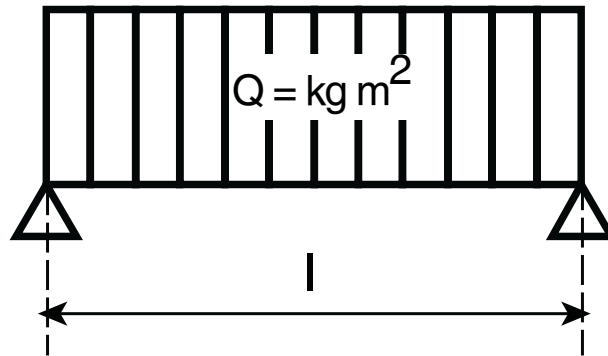
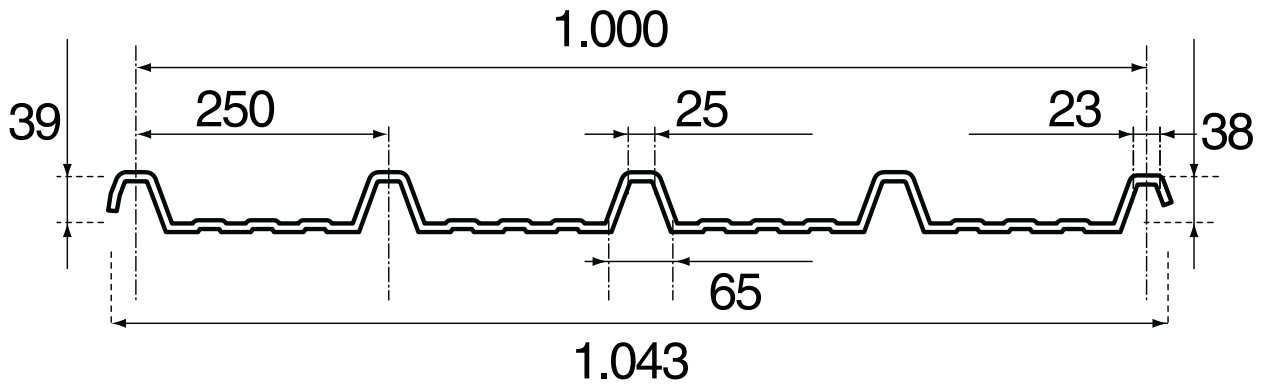
\* non standard toolings



# Dach profile

ACCESSORIES

## TRANSLUCENT FIBREGLASS SHEET



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

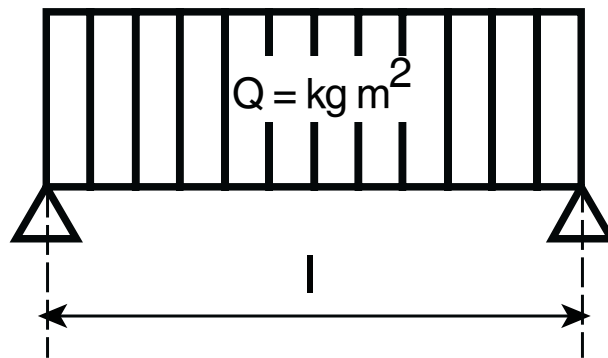
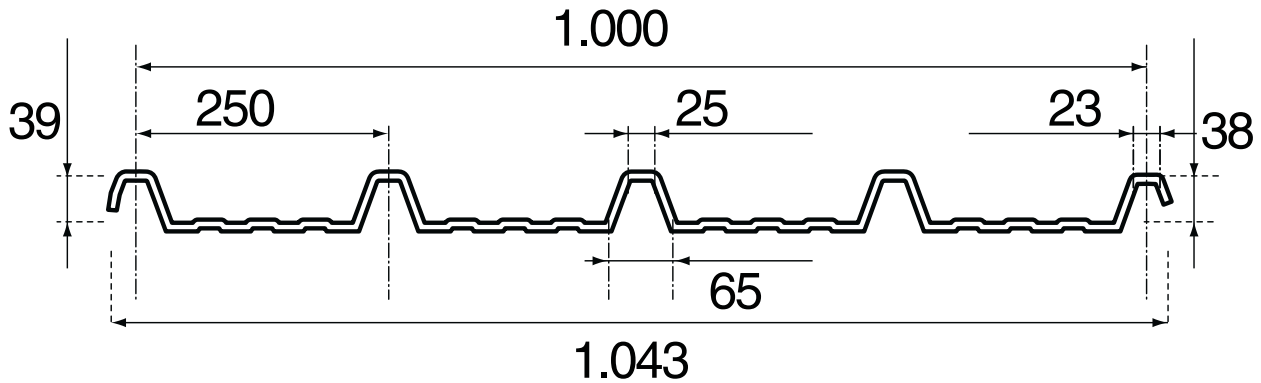
### MAXIMUM PERMITTED CAPACITY TABLE I safety factor $K_s = 2,5$

centre distances Type	0,80	1,0	1,20	1,40	1,60	1,80
150	109 kg/m <sup>2</sup>	90 kg/m <sup>2</sup>	70 kg/m <sup>2</sup>	56 kg/m <sup>2</sup>	47 kg/m <sup>2</sup>	41 kg/m <sup>2</sup>
170	135 kg/m <sup>2</sup>	103 kg/m <sup>2</sup>	85 kg/m <sup>2</sup>	70 kg/m <sup>2</sup>	58 kg/m <sup>2</sup>	50 kg/m <sup>2</sup>
210	175 kg/m <sup>2</sup>	138 kg/m <sup>2</sup>	115 kg/m <sup>2</sup>	74 kg/m <sup>2</sup>	79 kg/m <sup>2</sup>	69 kg/m <sup>2</sup>
250	220 kg/m <sup>2</sup>	172 kg/m <sup>2</sup>	141 kg/m <sup>2</sup>	119 kg/m <sup>2</sup>	95 kg/m <sup>2</sup>	88 kg/m <sup>2</sup>
300	276 kg/m <sup>2</sup>	216 kg/m <sup>2</sup>	172 kg/m <sup>2</sup>	150 kg/m <sup>2</sup>	126 kg/m <sup>2</sup>	112 kg/m <sup>2</sup>

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.

# Dach profile

## COMPACT POLYCARBONATE SHEET



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

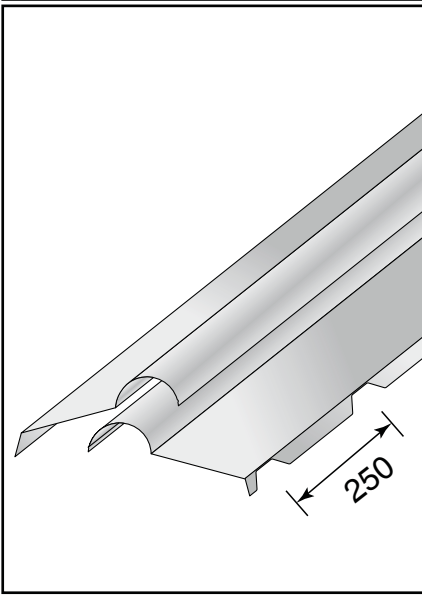
### MAXIMUM PERMITTED CAPACITY TABLE

thickness	1 mm	1,2 mm
	max. centre distances between supports (mm)	max. centre distances between supports (mm)
Permitted load (kg/m <sup>2</sup> )		
50	1300	1350
80	1250	1300
110	1200	1250

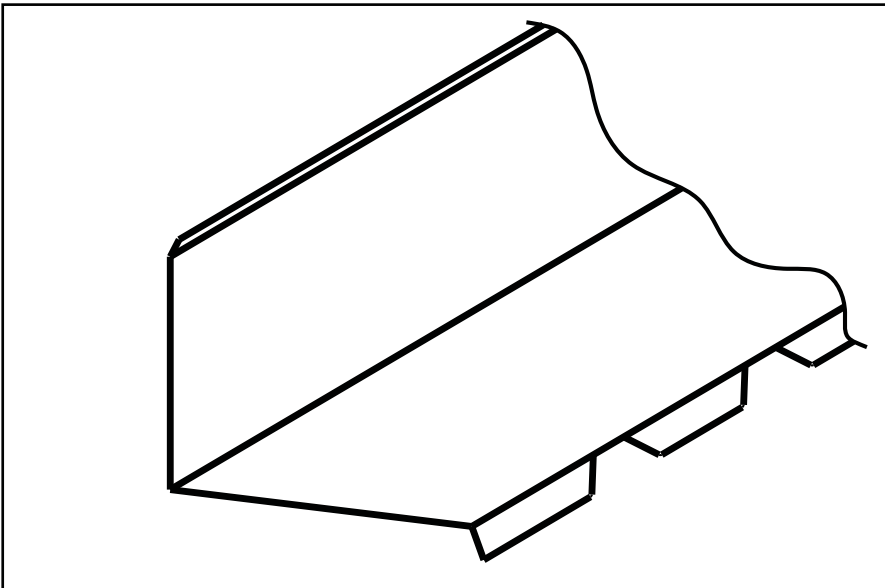
The contents of this calculation table are to be considered approximate and purely indicative. The structural calculation is the task of the designer and/or user in each single case that also has to determine the application design specifications for the roofing in question.

## Dach profile

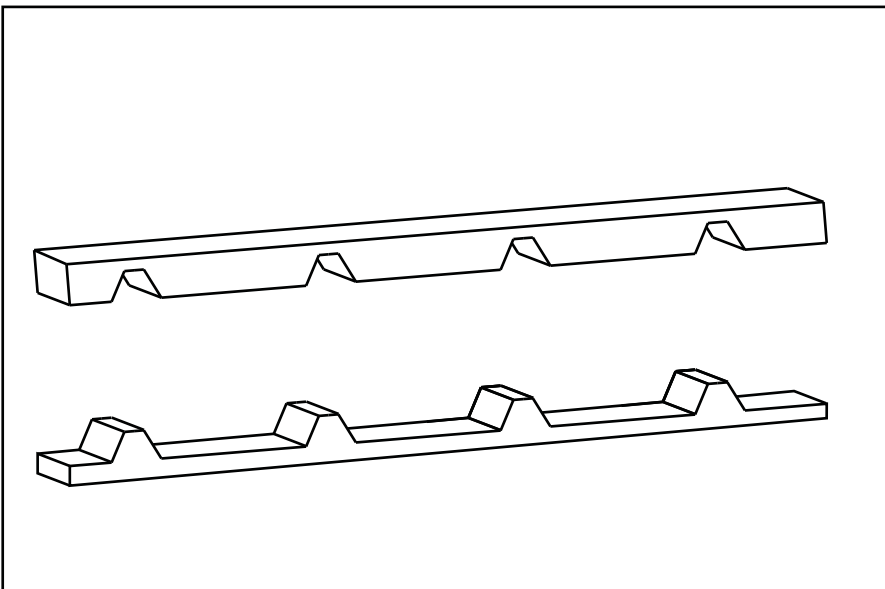
ACCESSORIES



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



**Notched wall/pitch connection**  
minimum development  
417 mm

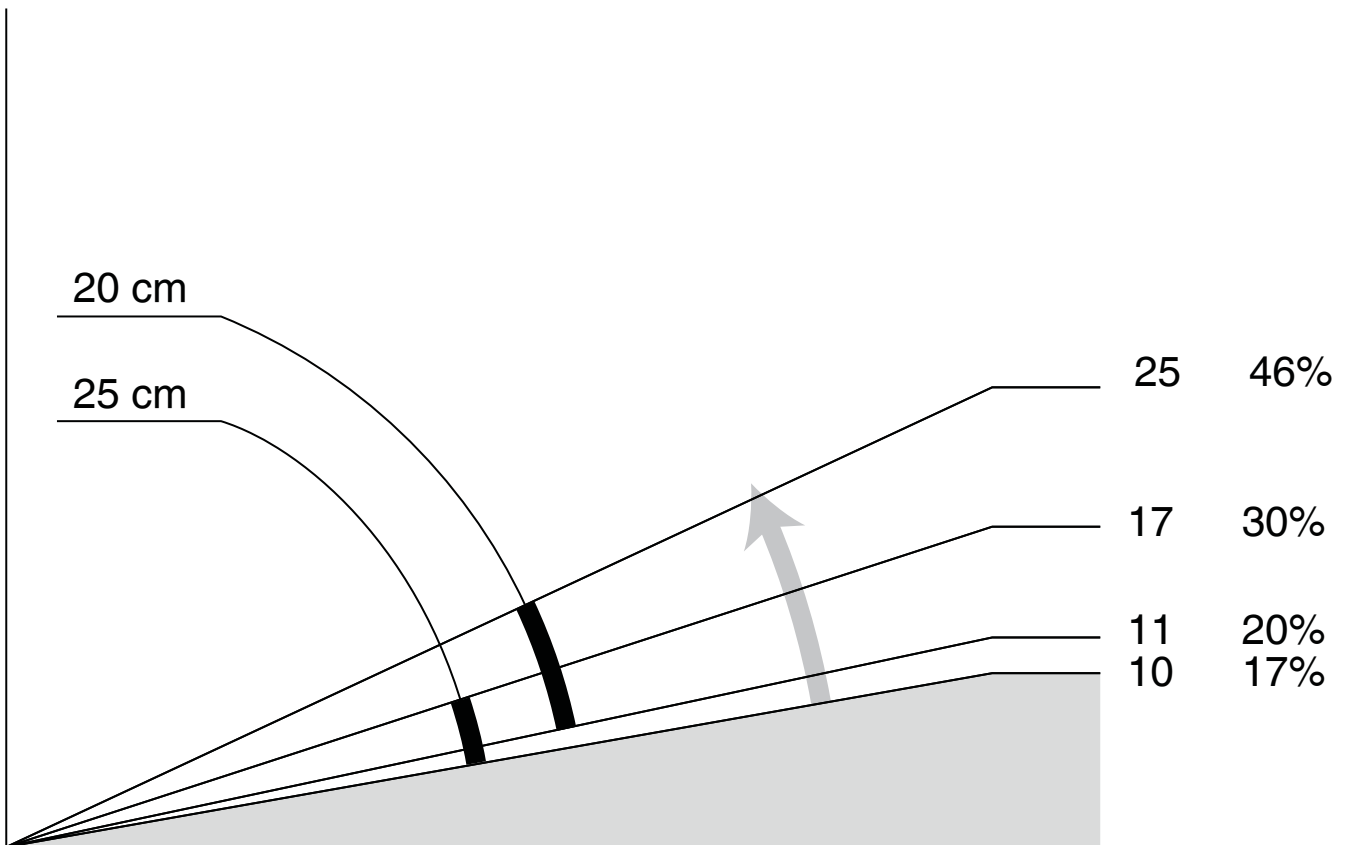


**Over corrugation profile**

**Under corrugation profile**

# Dach profile

## OVERLAPPING VALUES



INSTALLATION INSTRUCTIONS