zAmbelli

RIB-ROOF Evolution

Mach's einfach!

RIB-ROOF
metal roofing systems

RIB-ROOF EVOLUTION

CONVINCING IN DESIGN AND FUNCTION

Simplicity is our challenge – Evolution the result!

RIB-ROOF metal roofing systems stand for high functionality and safety. Our products save time, costs and problems as we emphasize handling and use. RIB-ROOF Evolution follows these basic ideas, gaining experience and developing further designs. By focusing on our principles, we have developed a design which satisfies both visually and functionally. The slim and round-shaped profiled sheet seam makes RIB-ROOF Evolution creative and interesting. Of course, RIB-ROOF Evolution offers Zambelli's simple and time-saving installation technique. A safe roof cover is guaranteed in the long term by a excellent sliding ability and stable profiled sheet connection. RIB-ROOF Evolution proves that a sophisticated technique does not have to be complicated but also can be good-looking.

Convincing design!

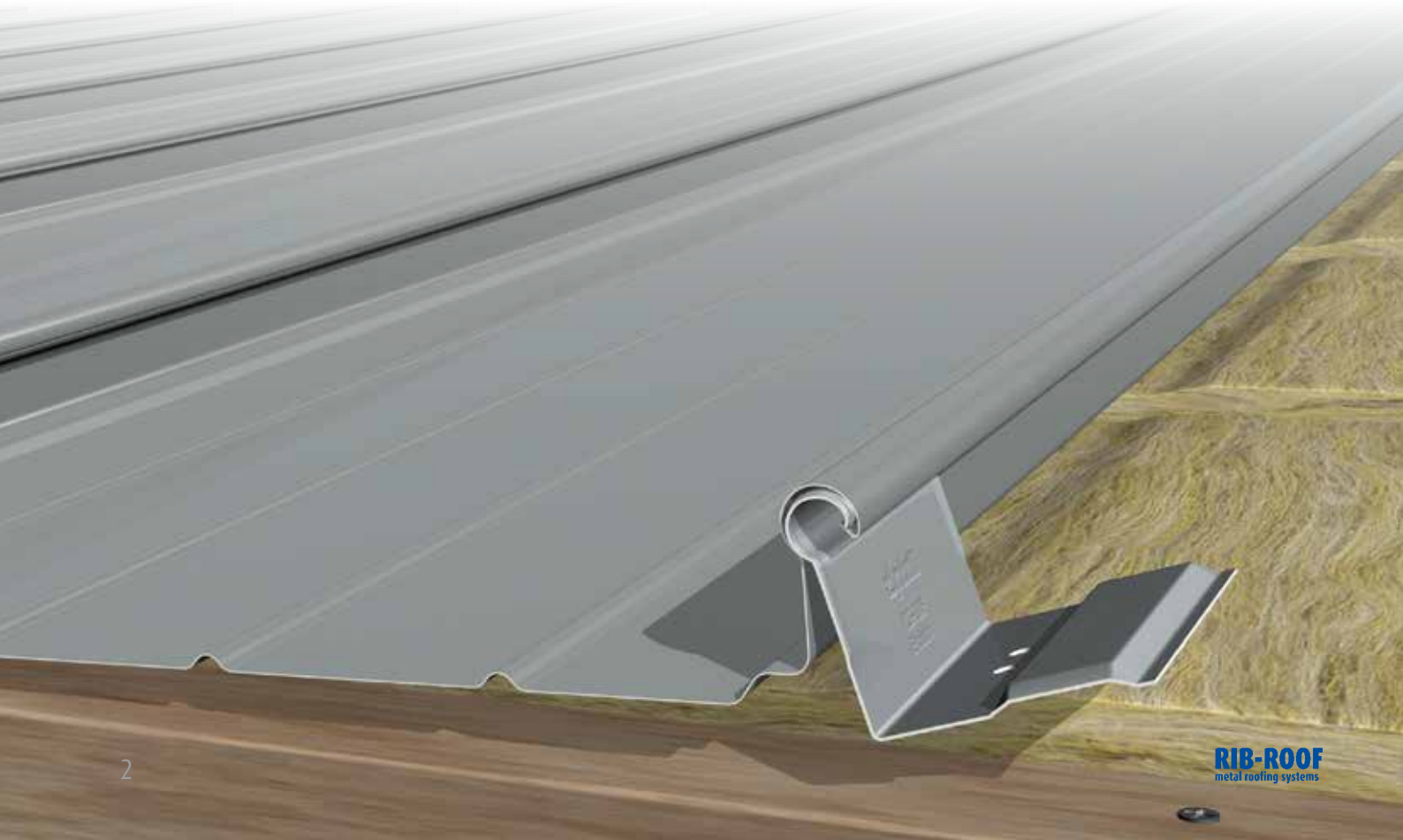
- ✔ slimmer, round-shaped profiled sheet seam (profile height 65 mm)
- ✔ offering design options both in roof appearance and material choices
- ✔ standard panel width: 500 mm

Proven functionality!

- ✔ suitable for all roof built-ups and substructures
- ✔ installation possible for roof pitches up from 1.5°
- ✔ diverse shapes of profiled sheets up to 33 m, rollforming at site also possible

Clever technique!

- ✔ stable profiled sheet connection without any zipping or crimping
- ✔ no time consuming traditional halter lay out required
- ✔ excellent sliding ability by our innovative directional clip
- ✔ simple and time-saving installation: position of clip is determined by the profiled sheet, place clips, swivel profiled sheet and lock-into-place
- ✔ unique male and female inter-locking seam
- ✔ installation without transversal joint



RIB-ROOF metal roofing systems

RIB-ROOF EVOLUTION

EXPLAINED SIMPLE AND QUICK

We at Zambelli know that speed is only a question of technique. If it must be done quickly, you can watch the basic installation steps for RIB-ROOF Evolution in a film. Both on the PC and on your smartphone when travelling or even at construction site.

FILM OF INSTALLATION PRINCIPLE RIB-ROOF EVOLUTION SLIDING STANDING SEAM ROOF WITH DIRECTIONAL CLIPS ON WOODEN LATHING

http://install-evolution-wooden.zambelli.de

FILM OF INSTALLATION PRINCIPLE RIB-ROOF EVOLUTION SLIDING STANDING SEAM ROOF WITH DIRECTIONAL CLIPS ON Z-PROFILES

http://install-evolution-z-profile.zambelli.de

FILM OF INSTALLATION PRINCIPLE RIB-ROOF EVOLUTION WITH DIRECTIONAL CLIPS 200 ON WOODEN COUNTER-/TRANSVERSE LATHING

http://install-evolution-directional-clip-wooden.zambelli.de

FILM OF INSTALLATION PRINCIPLE RIB-ROOF EVOLUTION WITH DIRECTIONAL CLIPS 200 ON DOUBLE-LAYER Z-PROFILES

http://install-evolution-directional-clip-z-profile.zambelli.de

FILM OF INSTALLATION PRINCIPLE RIB-ROOF EVOLUTION CURVED PROFILED SHEETS WITH TURNED DIRECTIONAL CLIPS 70 ON WOODEN COUNTER-/TRANSVERSE LATHING

http://install-evolution-curved-wooden.zambelli.de

FILM OF INSTALLATION PRINCIPLE RIB-ROOF EVOLUTION CURVED PROFILED SHEETS WITH TURNED DIRECTIONAL CLIPS 70 ON DOUBLE-LAYER Z-PROFILES

http://install-evolution-curved-z-profile.zambelli.de

FILM OF INSTALLATION PRINCIPLE RIB-ROOF EVOLUTION WITH DIRECTIONAL PROFILE 750 ON RIGID INSULATION BOARDS

http://install-evolution-directional-profile.zambelli.de

FILM OF INSTALLATION PRINCIPLE RIB-ROOF EVOLUTION WITH DIRECTIONAL PROFILE 1500 ON WOODEN COUNTER-/TRANSVERSE LATHING

http://install-evolution-directional-profile-wooden.zambelli.de

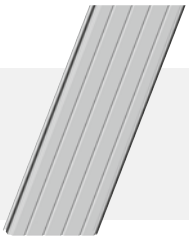
FILM OF INSTALLATION PRINCIPLE RIB-ROOF EVOLUTION WITH DIRECTIONAL PROFILE 1500 ON DOUBLE-LAYER Z-PROFILES

http://install-evolution-directional-profile-z-profile.zambelli.de

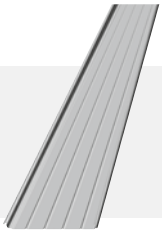
Zambelli channel on Youtube:
You can find installation instructions, CAD visualization and construction site documentation at http://www.youtube.com/ZambelliGermany

DELIVERY PROGRAM

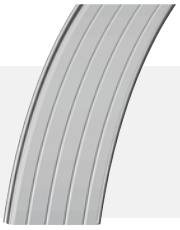
RIB-ROOF EVOLUTION



straight

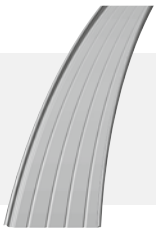


tapered



convex curved

concave curved



tapered convex curved

tapered concave curved

TAPERED PROFILED SHEETS

RIB-ROOF Evolution profiled sheets are also available tapered, curved or tapered curved. Tapered profiled sheets with a minimum construction width of 230 mm and a maximum standard width of 500 mm are executable. Apart from the standard width of 500 mm, we are prepared to manufacture other construction widths on request, e.g. 333 mm, 400 mm or up to 600 mm as a maximum.

CURVED PROFILED SHEETS

Depending on the material and material thickness (t in mm), the following minimum bending radii have to be observed when curving with machines:

Minimum bending radii with RIB-ROOF Evolution

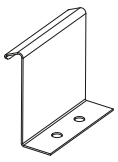
Material	Material thickness t	convex ⌒ Radius	concave ⌣ Radius
	[mm]	[m]	[m]
Steel	0.63	8.00	20.00
Aluminium	1.00	5.00	20.00
Aluminium	0.90	8.00	20.00
Aluminium	0.80	12.00	-
Titanium zinc	1.00	on request	on request
Copper	0.60	on request	on request

Table of minimum bending radii

Please contact us in advance if you intend to order curved profiled sheets with low bending radii. **RIB-ROOF Evolution profiled** sheets with a radius over 100 m will be curved without any machines but forced-curved and installed with turned directional clips (installation direction is from right to left).

In general: As the profiled sheets have to be pressed onto the requested radius when carrying out force-curving, waves are possible. Therefore, curving with machines is optically the better solution.

Turned directional clips have to be used for installation of RIB-ROOF Evolution **curved profiled sheets.**
Installation direction is from right to left.
Measurements of screws
(no countersunk screws):
Schraubenkopf-Ø max. 10.50 mm,
Schraubenkopf-Höhe max. 5.50 mm



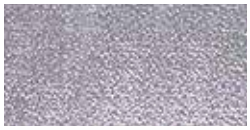
MATERIAL AND SURFACE SELECTION

TAKE ADVANTAGE OF DIVERSITY

The materials and colours shown below are on stock.

MATERIALS

Aluminium
mill finish / stucco-embossed 0.7 / 1.0 mm



Aluminium
mill finish / stucco-embossed,
protective plating on both sides 1.0 mm

Alu-zinc
steel sheet with alu-zinc alloy
corrosion protection class III 0.63 mm

Titanium zinc VMZINC
mill finish / pre-weathered 0.7 / 0.8 / 1.0 mm

Copper KME
TECU® 0.6 mm

SPECIAL SURFACES

Special colours and surfaces are on request available, e.g. in aluminium:

Patina Look

Zinc Look
Delivery is effected with protective foil.

Stucco-embossed Patina Matt

AluNatur
Available in many colour variations.

We are also prepared to deliver other colour-coatings, materials, thicknesses, and lacquer qualities subject to certain amounts and adequate delivery times. Price on request.

COLOUR-COATINGS

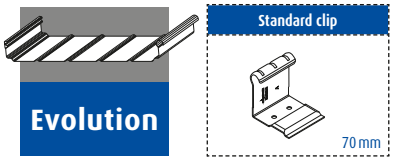
RAL 3009 oxide red	**Steel** sheet galvanised, polyester coated 0.63 mm **Aluminium** polyester coated 0.7 mm
RAL 6005 moss green	**Steel** sheet galvanised, polyester coated 0.63 mm
RAL 7016 anthracite grey	**Steel** sheet galvanised, polyester coated 0.63 mm **Aluminium** polyester coated 0.7 mm
RAL 7024 graphite grey	**Steel** sheet galvanised, polyester coated 0.63 mm **Aluminium** polyester coated 0.7 mm
RAL 7037 dust grey	**Steel** sheet galvanised, polyester coated 0.63 mm
RAL 8004 copper brown	**Steel** sheet galvanised, polyester coated 0.63 mm **Aluminium** polyester coated 0.7 mm
RAL 8014 sepia brown	**Aluminium** polyester coated 0.7 mm
Testa di Moro	**Steel** sheet galvanised, polyester coated 0.63 mm
RAL 9002 grey white	**Steel** sheet galvanised, polyester coated 0.63 mm
RAL 9006 white aluminium	**Steel** sheet galvanised, polyester coated 0.63 mm **Aluminium** polyester coated 0.7 / 1.0 mm
RAL 9007 grey aluminium	**Steel** sheet galvanised, polyester coated 0.63 mm **Aluminium** polyester coated 0.7 / 1.0 mm

Images are similar to RAL colours

Aluminium mill finish, coated on both sides,
Steel sheet, galvanised coated on both sides

Colour coating on both sides:
Front side 25 µm in RAL colours, rear side protective coating (light coloured)

SPANS / CLIP DISTANCES RIB-ROOF EVOLUTION



Wind loads according to DIN EN 1991-1-4/NA		Wind zone 1 inland			Wind zone 2 inland			Wind zone 3 inland			Wind zone 4 inland			
		Clip distance (m) with			Clip distance (m) with			Clip distance (m) with			Clip distance (m) with			
material	thick-ness (mm)	H (standard area) $c_{pe,1}$ = - 1.2	G (edge area) $c_{pe,1}$ = -2.0	F (corner area) $c_{pe,1}$ = -2.5	H (standard area) $c_{pe,1}$ = -1.2	G (edge area) $c_{pe,1}$ = -2.0	F (corner area) $c_{pe,1}$ = -2.5	H (standard area) $c_{pe,1}$ = -1.2	G (edge area) $c_{pe,1}$ = -2.0	F (corner area) $c_{pe,1}$ = -2.5	H (standard area) $c_{pe,1}$ = 1.2	G (edge area) $c_{pe,1}$ = 2.0	F (corner area) $c_{pe,1}$ = 2.5	max. span limit for acces-sibility*
		Height of building h ≤ 10.00 m												
		q_p = 0.50 kN/m²			q_p = 0.65 kN/m²			q_p = 0.80 kN/m²			q_p = 0.95 kN/m²			
		w=0.60 kN/m²	w=1.00 kN/m²	w=1.25 kN/m²	w=0.78 kN/m²	w=1.30 kN/m²	w=1.63 kN/m²	w=0.96 kN/m²	w=1.60 kN/m²	w=2.00 kN/m²	w=1.14 kN/m²	w=1.90 kN/m²	w=2.38 kN/m²	
Stahl	0.63	2.98 m	1.79 m	1.43 m	2.29 m	1.38 m	1.10 m	1.86 m	1.12 m	0.90 m	1.57 m	0.94 m	0.75 m	1.60 m
	0.75	3.17 m	1.90 m	1.52 m	2.44 m	1.46 m	1.17 m	1.98 m	1.19 m	0.95 m	1.67 m	1.00 m	0.80 m	2.40 m
Aluminium	0.70	2.45 m	1.47 m	1.18 m	1.88 m	1.13 m	0.90 m	1.53 m	0.92 m	0.74 m	1.29 m	0.77 m	0.62 m	**
	0.80	3.20 m	1.92 m	1.54 m	2.46 m	1.48 m	1.18 m	2.00 m	1.20 m	0.96 m	1.68 m	1.01 m	0.81 m	1.50 m
	0.90	3.50 m	2.10 m	1.68 m	2.69 m	1.62 m	1.29 m	2.19 m	1.31 m	1.05 m	1.84 m	1.11 m	0.88 m	1.70 m
	1.00	3.82 m	2.29 m	1.83 m	2.94 m	1.76 m	1.41 m	2.39 m	1.43 m	1.15 m	2.01 m	1.21 m	0.96 m	1.90 m

		Height of building h > 10.00 m ≤ 18.00 m												
		q_p = 0.65 kN/m²			q_p = 0.80 kN/m²			q_p = 0.95 kN/m²			q_p = 1.15 kN/m²			
		w=0.78 kN/m²	w=1.30 kN/m²	w=1.63 kN/m²	w=0.96 kN/m²	w=1.60 kN/m²	w=2.00 kN/m²	w=1.14 kN/m²	w=1.90 kN/m²	w=2.38 kN/m²	w=1.38 kN/m²	w=2.30 kN/m²	w=2.88 kN/m²	
Stahl	0.63	2.29 m	1.38 m	1.10 m	1.86 m	1.12 m	0.90 m	1.57 m	0.94 m	0.75 m	1.30 m	0.78 m	0.62 m	1.60 m
	0.75	2.44 m	1.46 m	1.17 m	1.98 m	1.19 m	0.95 m	1.67 m	1.00 m	0.80 m	1.38 m	0.83 m	0.66 m	2.40 m
Aluminium	0.70	1.88 m	1.13 m	0.90 m	1.53 m	0.92 m	0.74 m	1.29 m	0.77 m	0.62 m	1.07 m	0.64 m	0.51 m	**
	0.80	2.46 m	1.48 m	1.18 m	2.00 m	1.20 m	0.96 m	1.68 m	1.01 m	0.81 m	1.39 m	0.83 m	0.67 m	1.50 m
	0.90	2.69 m	1.62 m	1.29 m	2.19 m	1.31 m	1.05 m	1.84 m	1.11 m	0.88 m	1.52 m	0.91 m	0.73 m	1.70 m
	1.00	2.94 m	1.76 m	1.41 m	2.39 m	1.43 m	1.15 m	2.01 m	1.21 m	0.96 m	1.66 m	1.00 m	0.80 m	1.90 m

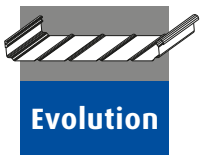
		Height of building h > 18.00 m ≤ 25.00 m												
		q_p = 0.75 kN/m²			q_p = 0.90 kN/m²			q_p = 1.10 kN/m²			q_p = 1.30 kN/m²			
		w=0.90 kN/m²	w=1.50 kN/m²	w=1.88 kN/m²	w=1.08 kN/m²	w=1.80 kN/m²	w=2.25 kN/m²	w=1.32 kN/m²	w=2.20 kN/m²	w=2.75 kN/m²	w=1.56 kN/m²	w=2.60 kN/m²	w=3.25 kN/m²	
Stahl	0.63	1.99 m	1.19 m	0.95 m	1.66 m	0.99 m	0.80 m	1.36 m	0.81 m	0.65 m	1.15 m	0.69 m	0.55 m	1.60 m
	0.75	2.11 m	1.27 m	1.01 m	1.76 m	1.06 m	0.84 m	1.44 m	0.86 m	0.69 m	1.22 m	0.73 m	0.58 m	2.40 m
Aluminium	0.70	1.63 m	0.98 m	0.78 m	1.36 m	0.82 m	0.65 m	1.11 m	0.67 m	0.53 m	0.94 m	0.57 m	0.45 m	**
	0.80	2.13 m	1.28 m	1.02 m	1.78 m	1.07 m	0.85 m	1.45 m	0.87 m	0.70 m	1.23 m	0.74 m	0.59 m	1.50 m
	0.90	2.33 m	1.40 m	1.12 m	1.94 m	1.17 m	0.93 m	1.59 m	0.95 m	0.76 m	1.35 m	0.81 m	0.65 m	1.70 m
	1.00	2.54 m	1.53 m	1.22 m	2.12 m	1.27 m	1.02 m	1.73 m	1.04 m	0.83 m	1.47 m	0.88 m	0.70 m	1.90 m

Table with max. spans and clip distances (central axis) for enclosed halls, e.g. double pitch roof up to 5° roof pitch.

* eventual waves/bulges arising from inspection/installation of e.g. lathing or Z-profile, do not deem any defect.

** only on fully-inserted supports

SPANS / CLIP DISTANCES RIB-ROOF EVOLUTION



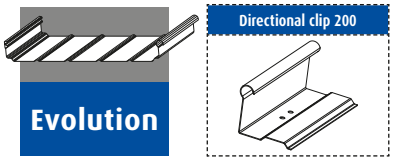
Wind loads according to DIN EN 1991-1-4/NA		Wind zone 2 coasts and islands of Baltic Sea			Wind zone 3 coasts and islands of Baltic Sea			Wind zone 4 coasts of North and Baltic Sea as well as islands of Baltic Sea			Wind zone 4 islands of North Sea			
		Clip distance (m) with			Clip distance (m) with			Clip distance (m) with			Clip distance (m) with			
material	thick-ness (mm)	H (standard area) $c_{pe,1}$ = -1.2	G (edge area) $c_{pe,1}$ = -2.0	F (corner area) $c_{pe,1}$ = -2.5	H (standard area) $c_{pe,1}$ = -1.2	G (edge area) $c_{pe,1}$ = -2.0	F (corner area) $c_{pe,1}$ = -2.5	H (standard area) $c_{pe,1}$ = -1.2	G (edge area) $c_{pe,1}$ = -2.0	F (corner area) $c_{pe,1}$ = -2.5	H (standard area) $c_{pe,1}$ = -1.2	G (edge area) $c_{pe,1}$ = -2.0	F (corner area) $c_{pe,1}$ = -2.5	max. span limit for acces-sibility*
		Height of building h ≤ 10.00 m												
		q_p = 0.85 kN/m²			q_p = 1.05 kN/m²			q_p = 1.25 kN/m²			q_p = 1.40 kN/m²			
		w=1.02 kN/m²	w=1.70 kN/m²	w=2.13 kN/m²	w=1.26 kN/m²	w=2.10 kN/m²	w=2.63 kN/m²	w=1.50 kN/m²	w=2.50 kN/m²	w=3.13 kN/m²	w=1.68 kN/m²	w=2.80 kN/m²	w=3.50 kN/m²	
Stahl	0.63	1.75 m	1.05 m	0.84 m	1.42 m	0.85 m	0.68 m	1.19 m	0.72 m	0.57 m	1.07 m	0.64 m	0.51 m	1.60 m
	0.75	1.86 m	1.12 m	0.89 m	1.51 m	0.90 m	0.72 m	1.27 m	0.76 m	0.61 m	1.13 m	0.68 m	0.54 m	2.40 m
Aluminium	0.70	1.44 m	0.86 m	0.69 m	1.17 m	0.70 m	0.56 m	0.98 m	0.59 m	0.47 m	0.88 m	0.53 m	0.42 m	**
	0.80	1.88 m	1.13 m	0.90 m	1.52 m	0.91 m	0.73 m	1.28 m	0.77 m	0.61 m	1.14 m	0.69 m	0.55 m	1.50 m
	0.90	2.06 m	1.24 m	0.99 m	1.67 m	1.00 m	0.80 m	1.40 m	0.84 m	0.67 m	1.25 m	0.75 m	0.60 m	1.70 m
	1.00	2.25 m	1.35 m	1.08 m	1.82 m	1.09 m	0.87 m	1.53 m	0.92 m	0.73 m	1.36 m	0.82 m	0.65 m	1.90 m
		Height of building h > 10.00 m ≤ 18.00 m												
		q_p = 1.00 kN/m²			q_p = 1.20 kN/m²			q_p = 1.40 kN/m²						
		w=1.20 kN/m²	w=2.00 kN/m²	w=2.50 kN/m²	w=1.44 kN/m²	w=2.40 kN/m²	w=3.00 kN/m²	w=1.68 kN/m²	w=2.80 kN/m²	w=3.50 kN/m²				
Stahl	0.63	1.49 m	0.90 m	0.72 m	1.24 m	0.75 m	0.60 m	1.07 m	0.64 m	0.51 m				1.60 m
	0.75	1.58 m	0.95 m	0.76 m	1.32 m	0.79 m	0.63 m	1.13 m	0.68 m	0.54 m				2.40 m
Aluminium	0.70	1.23 m	0.74 m	0.59 m	1.02 m	0.61 m	0.49 m	0.88 m	0.53 m	0.42 m				**
	0.80	1.60 m	0.96 m	0.77 m	1.33 m	0.80 m	0.64 m	1.14 m	0.69 m	0.55 m				1.50 m
	0.90	1.75 m	1.05 m	0.84 m	1.46 m	0.88 m	0.70 m	1.25 m	0.75 m	0.60 m				1.70 m
	1.00	1.91 m	1.15 m	0.92 m	1.59 m	0.95 m	0.76 m	1.36 m	0.82 m	0.65 m				1.90 m
		Height of building h > 18.00 m ≤ 25.00 m												
		q_p = 1.10 kN/m²			q_p = 1.30 kN/m²			q_p = 1.55 kN/m²						
		w=1.32 kN/m²	w=2.20 kN/m²	w=2.75 kN/m²	w=1.56 kN/m²	w=2.60 kN/m²	w=3.25 kN/m²	w=1.86 kN/m²	w=3.10 kN/m²	w=3.88 kN/m²				
Stahl	0.63	1.36 m	0.81 m	0.65 m	1.15 m	0.69 m	0.55 m	0.96 m	0.58 m	0.46 m				1.60 m
	0.75	1.44 m	0.86 m	0.69 m	1.22 m	0.73 m	0.58 m	1.02 m	0.61 m	0.49 m				2.40 m
Aluminium	0.70	1.11 m	0.67 m	0.53 m	0.94 m	0.57 m	0.45 m	0.79 m	0.47 m	0.38 m				**
	0.80	1.45 m	0.87 m	0.70 m	1.23 m	0.74 m	0.59 m	1.03 m	0.62 m	0.50 m				1.50 m
	0.90	1.59 m	0.95 m	0.76 m	1.35 m	0.81 m	0.65 m	1.13 m	0.68 m	0.54 m				1.70 m
	1.00	1.73 m	1.04 m	0.83 m	1.47 m	0.88 m	0.70 m	1.23 m	0.74 m	0.59 m				1.90 m

Table with max. spans and clip distances (central axis) for enclosed halls, e.g. double pitch roof up to 5° roof pitch.

* eventual waves/bulges arising from inspection/installation of e.g. lathing or Z-profile, do not deem any defect.

** only on fully-inserted supports

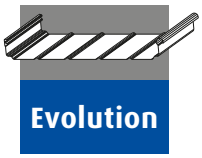
SPANS / CLIP DISTANCES RIB-ROOF EVOLUTION



Wind loads according to DIN EN 1991-1-4/NA		Wind zone 1 inland			Wind zone 2 inland			Wind zone 3 inland			Wind zone 4 inland			
		Clip distance (m) with			Clip distance (m) with			Clip distance (m) with			Clip distance (m) with			
material	thick-ness (mm)	H (standard area) $c_{pe,1}$ = -1.2	G (edge area) $c_{pe,1}$ = -2.0	F (corner area) $c_{pe,1}$ = -2.5	H (standard area) $c_{pe,1}$ = -1.2	G (edge area) $c_{pe,1}$ = -2.0	F (corner area) $c_{pe,1}$ = -2.5	H (standard area) $c_{pe,1}$ = -1.2	G (edge area) $c_{pe,1}$ = -2.0	F (corner area) $c_{pe,1}$ = -2.5	H (standard area) $c_{pe,1}$ = 1.2	G (edge area) $c_{pe,1}$ = 2.0	F (corner area) $c_{pe,1}$ = 2.5	max. span limit for acces-sibility*
		Height of building h ≤ 10.00 m												
		q = 0.50 kN/m²			q = 0.65 kN/m²			q = 0.80 kN/m²			q = 0.95 kN/m²			
		w=0.60 kN/m²	w=1.00 kN/m²	w=1.25 kN/m²	w=0.78 kN/m²	w=1.30 kN/m²	w=1.63 kN/m²	w=0.96 kN/m²	w=1.60 kN/m²	w=2.00 kN/m²	w=1.14 kN/m²	w=1.90 kN/m²	w=2.38 kN/m²	
Steel	0.63	4.80 m	2.88 m	2.30 m	3.69 m	2.22 m	1.77 m	3.00 m	1.80 m	1.44 m	2.53 m	1.52 m	1.21 m	1.60 m
	0.75	4.80 m	2.88 m	2.30 m	3.69 m	2.22 m	1.77 m	3.00 m	1.80 m	1.44 m	2.53 m	1.52 m	1.21 m	2.40 m
Aluminium	0.70	4.33 m	2.60 m	2.08 m	3.33 m	2.00 m	1.60 m	2.71 m	1.63 m	1.30 m	2.28 m	1.37 m	1.09 m	1.20 m
	0.80	5.52 m	3.31 m	2.65 m	4.24 m	2.55 m	2.04 m	3.45 m	2.07 m	1.66 m	2.90 m	1.74 m	1.39 m	1.50 m
	0.90	5.52 m	3.31 m	2.65 m	4.24 m	2.55 m	2.04 m	3.45 m	2.07 m	1.66 m	2.90 m	1.74 m	1.39 m	1.70 m
	1.00	5.52 m	3.31 m	2.65 m	4.24 m	2.55 m	2.04 m	3.45 m	2.07 m	1.66 m	2.90 m	1.74 m	1.39 m	1.90 m
		Height of building h > 10.00 m ≤ 18.00 m												
		q = 0.65 kN/m²			q = 0.80 kN/m²			q = 0.95 kN/m²			q = 1.15 kN/m²			
		w=0.78 kN/m²	w=1.30 kN/m²	w=1.63 kN/m²	w=0.96 kN/m²	w=1.60 kN/m²	w=2.00 kN/m²	w=1.14 kN/m²	w=1.90 kN/m²	w=2.38 kN/m²	w=1.38 kN/m²	w=2.30 kN/m²	w=2.88 kN/m²	
Steel	0.63	3.69 m	2.22 m	1.77 m	3.00 m	1.80 m	1.44 m	2.53 m	1.52 m	1.21 m	2.09 m	1.25 m	1.00 m	1.60 m
	0.75	3.69 m	2.22 m	1.77 m	3.00 m	1.80 m	1.44 m	2.53 m	1.52 m	1.21 m	2.09 m	1.25 m	1.00 m	2.40 m
Aluminium	0.70	3.33 m	2.00 m	1.60 m	2.71 m	1.63 m	1.30 m	2.28 m	1.37 m	1.09 m	1.88 m	1.13 m	0.90 m	1.20 m
	0.80	4.24 m	2.55 m	2.04 m	3.45 m	2.07 m	1.66 m	2.90 m	1.74 m	1.39 m	2.40 m	1.44 m	1.15 m	1.50 m
	0.90	4.24 m	2.55 m	2.04 m	3.45 m	2.07 m	1.66 m	2.90 m	1.74 m	1.39 m	2.40 m	1.44 m	1.15 m	1.70 m
	1.00	4.24 m	2.55 m	2.04 m	3.45 m	2.07 m	1.66 m	2.90 m	1.74 m	1.39 m	2.40 m	1.44 m	1.15 m	1.90 m
		Height of building h > 18.00 m ≤ 25.00 m												
		q = 0.75 kN/m²			q = 0.90 kN/m²			q = 1.10 kN/m²			q = 1.30 kN/m²			
		w=0.90 kN/m²	w=1.50 kN/m²	w=1.88 kN/m²	w=1.08 kN/m²	w=1.80 kN/m²	w=2.25 kN/m²	w=1.32 kN/m²	w=2.20 kN/m²	w=2.75 kN/m²	w=1.56 kN/m²	w=2.60 kN/m²	w=3.25 kN/m²	
Steel	0.63	3.20 m	1.92 m	1.54 m	2.67 m	1.60 m	1.28 m	2.18 m	1.31 m	1.05 m	1.85 m	1.11 m	0.89 m	1.60 m
	0.75	3.20 m	1.92 m	1.54 m	2.67 m	1.60 m	1.28 m	2.18 m	1.31 m	1.05 m	1.85 m	1.11 m	0.89 m	2.40 m
Aluminium	0.70	2.89 m	1.73 m	1.39 m	2.41 m	1.44 m	1.16 m	1.97 m	1.18 m	0.95 m	1.67 m	1.00 m	0.80 m	1.20 m
	0.80	3.68 m	2.21 m	1.77 m	3.06 m	1.84 m	1.47 m	2.51 m	1.50 m	1.20 m	2.12 m	1.27 m	1.02 m	1.50 m
	0.90	3.68 m	2.21 m	1.77 m	3.06 m	1.84 m	1.47 m	2.51 m	1.50 m	1.20 m	2.12 m	1.27 m	1.02 m	1.70 m
	1.00	3.68 m	2.21 m	1.77 m	3.06 m	1.84 m	1.47 m	2.51 m	1.50 m	1.20 m	2.12 m	1.27 m	1.02 m	1.90 m

Table with spans and clip distances in meter for enclosed halls, e.g. double pitch roof up to 5° roof pitch.

* installation-related, e.g. with lathing or Z-profile



Wind loads according to DIN EN 1991-1-4/NA		Wind zone 2 coasts and islands of Baltic Sea			Wind zone 3 coasts and islands of Baltic Sea			Wind zone 4 coasts of North and Baltic Sea as well as islands of Baltic Sea			Wind zone 4 islands of North Sea			
		Clip distance (m) with			Clip distance (m) with			Clip distance (m) with			Clip distance (m) with			
material	thick-ness (mm)	H (standard area) $c_{pe,1}$ = -1.2	G (edge area) $c_{pe,1}$ = -2.0	F (corner area) $c_{pe,1}$ = -2.5	H (standard area) $c_{pe,1}$ = -1.2	G (edge area) $c_{pe,1}$ = -2.0	F (corner area) $c_{pe,1}$ = -2.5	H (standard area) $c_{pe,1}$ = -1.2	G (edge area) $c_{pe,1}$ = -2.0	F (corner area) $c_{pe,1}$ = -2.5	H (standard area) $c_{pe,1}$ = -1.2	G (edge area) $c_{pe,1}$ = -2.0	F (corner area) $c_{pe,1}$ = -2.5	max. span limit for acces-sibility*
		Height of building h ≤ 10.00 m												
		q = 0.85 kN/m²			q = 1.05 kN/m²			q = 1.25 kN/m²			q = 1.40 kN/m²			
		w=1.02 kN/m²	w=1.70 kN/m²	w=2.13 kN/m²	w=1.26 kN/m²	w=2.10 kN/m²	w=2.63 kN/m²	w=1.50 kN/m²	w=2.50 kN/m²	w=3.13 kN/m²	w=1.68 kN/m²	w=2.80 kN/m²	w=3.50 kN/m²	
Steel	0.63	2.82 m	1.69 m	1.36 m	2.29 m	1.37 m	1.10 m	1.92 m	1.15 m	0.92 m	1.71 m	1.03 m	0.82 m	1.60 m
	0.75	2.82 m	1.69 m	1.36 m	2.29 m	1.37 m	1.10 m	1.92 m	1.15 m	0.92 m	1.71 m	1.03 m	0.82 m	2.40 m
Aluminium	0.70	2.55 m	1.53 m	1.22 m	2.06 m	1.24 m	0.99 m	1.73 m	1.04 m	0.83 m	1.55 m	0.93 m	0.74 m	1.20 m
	0.80	3.25 m	1.95 m	1.56 m	2.63 m	1.58 m	1.26 m	2.21 m	1.32 m	1.06 m	1.97 m	1.18 m	0.95 m	1.50 m
	0.90	3.25 m	1.95 m	1.56 m	2.63 m	1.58 m	1.26 m	2.21 m	1.32 m	1.06 m	1.97 m	1.18 m	0.95 m	1.70 m
	1.00	3.25 m	1.95 m	1.56 m	2.63 m	1.58 m	1.26 m	2.21 m	1.32 m	1.06 m	1.97 m	1.18 m	0.95 m	1.90 m

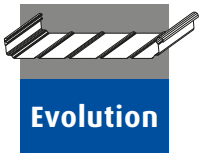
		Height of building h > 10.00 m ≤ 18.00 m												
		q = 1.00 kN/m²			q = 1.20 kN/m²			q = 1.40 kN/m²						
		w=1.20 kN/m²	w=2.00 kN/m²	w=2.50 kN/m²	w=1.44 kN/m²	w=2.40 kN/m²	w=3.00 kN/m²	w=1.68 kN/m²	w=2.80 kN/m²	w=3.50 kN/m²				
Steel	0.63	2.40 m	1.44 m	1.15 m	2.00 m	1.20 m	0.96 m	1.71 m	1.03 m	0.82 m				1.60 m
	0.75	2.40 m	1.44 m	1.15 m	2.00 m	1.20 m	0.96 m	1.71 m	1.03 m	0.82 m				2.40 m
Aluminium	0.70	2.17 m	1.30 m	1.04 m	1.81 m	1.08 m	0.87 m	1.55 m	0.93 m	0.74 m				1.20 m
	0.80	2.76 m	1.66 m	1.32 m	2.30 m	1.38 m	1.10 m	1.97 m	1.18 m	0.95 m				1.50 m
	0.90	2.76 m	1.66 m	1.32 m	2.30 m	1.38 m	1.10 m	1.97 m	1.18 m	0.95 m				1.70 m
	1.00	2.76 m	1.66 m	1.32 m	2.30 m	1.38 m	1.10 m	1.97 m	1.18 m	0.95 m				1.90 m

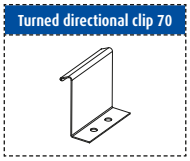
		Height of building h > 18.00 m ≤ 25.00 m												
		q = 1.10 kN/m²			q = 1.30 kN/m²			q = 1.55 kN/m²						
		w=1.32 kN/m²	w=2.20 kN/m²	w=2.75 kN/m²	w=1.56 kN/m²	w=2.60 kN/m²	w=3.25 kN/m²	w=1.86 kN/m²	w=3.10 kN/m²	w=3.88 kN/m²				
Steel	0.63	2.18 m	1.31 m	1.05 m	1.85 m	1.11 m	0.89 m	1.55 m	-0.93 m	0.74 m				1.60 m
	0.75	2.18 m	1.31 m	1.05 m	1.85 m	1.11 m	0.89 m	1.55 m	0.93 m	0.74 m				2.40 m
Aluminium	0.70	1.97 m	1.18 m	0.95 m	1.67 m	1.00 m	0.80 m	1.40 m	0.84 m	0.67 m				1.20 m
	0.80	2.51 m	1.50 m	1.20 m	2.12 m	1.27 m	1.02 m	1.78 m	1.07 m	0.85 m				1.50 m
	0.90	2.51 m	1.50 m	1.20 m	2.12 m	1.27 m	1.02 m	1.78 m	1.07 m	0.85 m				1.70 m
	1.00	2.51 m	1.50 m	1.20 m	2.12 m	1.27 m	1.02 m	1.78 m	1.07 m	0.85 m				1.90 m

Table with spans and clip distances in meter for enclosed halls,
e.g. double pitch roof up to 5° roof pitch.

* installation-related, e.g. with lathing or Z-profile

SPANS / CLIP DISTANCES RIB-ROOF EVOLUTION

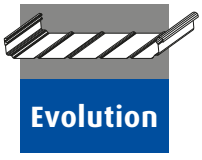




Wind loads according to DIN EN 1991-1-4/NA		Wind zone 1 inland			Wind zone 2 inland			Wind zone 3 inland			Wind zone 4 inland			
		Clip distance (m) with			Clip distance (m) with			Clip distance (m) with			Clip distance (m) with			
material	thick-ness (mm)	H (standard area) $c_{pe,1}$=- 1.2	G (edge area) $c_{pe,1}$= -2.0	F (corner area) $c_{pe,1}$= -2.5	H (standard area) $c_{pe,1}$= -1.2	G (edge area) $c_{pe,1}$= -2.0	F (corner area) $c_{pe,1}$= -2.5	H (standard area) $c_{pe,1}$= -1.2	G (edge area) $c_{pe,1}$= -2.0	F (corner area) $c_{pe,1}$= -2.5	H (standard area) $c_{pe,1}$= 1.2	G (edge area) $c_{pe,1}$= 2.0	F (corner area) $c_{pe,1}$= 2.5	max. span limit for acces-sibility*
		Height of building h ≤ 10.00 m												
		q = 0.50 kN/m²			q = 0.65 kN/m²			q = 0.80 kN/m²			q = 0.95 kN/m²			
		w=0.60 kN/m²	w=1.00 kN/m²	w=1.25 kN/m²	w=0.78 kN/m²	w=1.30 kN/m²	w=1.63 kN/m²	w=0.96 kN/m²	w=1.60 kN/m²	w=2.00 kN/m²	w=1.14 kN/m²	w=1.90 kN/m²	w=2.38 kN/m²	
Steel	0.63	2.20 m	1.32 m	1.06 m	1.69 m	1.02 m	0.81 m	1.38 m	0.83 m	0.66 m	1.16 m	0.69 m	0.56 m	1.60 m
	0.75	2.20 m	1.32 m	1.06 m	1.69 m	1.02 m	0.81 m	1.38 m	0.83 m	0.66 m	1.16 m	0.69 m	0.56 m	2.40 m
Aluminium	0.70	1.62 m	0.97 m	0.78 m	1.24 m	0.75 m	0.60 m	1.01 m	0.61 m	0.49 m	0.85 m	0.51 m	0.41 m	1.20 m
	0.80	2.12 m	1.27 m	1.02 m	1.63 m	0.98 m	0.78 m	1.32 m	0.79 m	0.64 m	1.11 m	0.67 m	0.53 m	1.50 m
	0.90	3.23 m	1.94 m	1.55 m	2.49 m	1.49 m	1.19 m	2.02 m	1.21 m	0.97 m	1.70 m	1.02 m	0.82 m	1.70 m
	1.00	4.37 m	2.62 m	2.10 m	3.36 m	2.02 m	1.61 m	2.73 m	1.64 m	1.31 m	2.30 m	1.38 m	1.10 m	1.90 m
		Height of building h > 10.00 m ≤ 18.00 m												
		q = 0.65 kN/m²			q = 0.80 kN/m²			q = 0.95 kN/m²			q = 1.15 kN/m²			
		w=0.78 kN/m²	w=1.30 kN/m²	w=1.63 kN/m²	w=0.96 kN/m²	w=1.60 kN/m²	w=2.00 kN/m²	w=1.14 kN/m²	w=1.90 kN/m²	w=2.38 kN/m²	w=1.38 kN/m²	w=2.30 kN/m²	w=2.88 kN/m²	
Steel	0.63	1.69 m	1.02 m	0.81 m	1.38 m	0.83 m	0.66 m	1.16 m	0.69 m	0.56 m	0.96 m	0.57 m	0.46 m	1.60 m
	0.75	1.69 m	1.02 m	0.81 m	1.38 m	0.83 m	0.66 m	1.16 m	0.69 m	0.56 m	0.96 m	0.57 m	0.46 m	2.40 m
Aluminium	0.70	1.24 m	0.75 m	0.60 m	1.01 m	0.61 m	0.49 m	0.85 m	0.51 m	0.41 m	0.70 m	0.42 m	0.34 m	1.20 m
	0.80	1.63 m	0.98 m	0.78 m	1.32 m	0.79 m	0.64 m	1.11 m	0.67 m	0.53 m	0.92 m	0.55 m	0.44 m	1.50 m
	0.90	2.49 m	1.49 m	1.19 m	2.02 m	1.21 m	0.97 m	1.70 m	1.02 m	0.82 m	1.41 m	0.84 m	0.67 m	1.70 m
	1.00	3.36 m	2.02 m	1.61 m	2.73 m	1.64 m	1.31 m	2.30 m	1.38 m	1.10 m	1.90 m	1.14 m	0.91 m	1.90 m
		Height of building h > 18.00 m ≤ 25.00 m												
		q = 0.75 kN/m²			q = 0.90 kN/m²			q = 1.10 kN/m²			q = 1.30 kN/m²			
		w=0.90 kN/m²	w=1.50 kN/m²	w=1.88 kN/m²	w=1.08 kN/m²	w=1.80 kN/m²	w=2.25 kN/m²	w=1.32 kN/m²	w=2.20 kN/m²	w=2.75 kN/m²	w=1.56 kN/m²	w=2.60 kN/m²	w=3.25 kN/m²	
Steel	0.63	1.47 m	0.88 m	0.70 m	1.22 m	0.73 m	0.59 m	1.00 m	0.60 m	0.48 m	0.85 m	0.51 m	0.41 m	1.60 m
	0.75	1.47 m	0.88 m	0.70 m	1.22 m	0.73 m	0.59 m	1.00 m	0.60 m	0.48 m	0.85 m	0.51 m	0.41 m	2.40 m
Aluminium	0.70	1.08 m	0.65 m	0.52 m	0.90 m	0.54 m	0.43 m	0.73 m	0.44 m	0.35 m	0.62 m	0.37 m	0.30 m	1.20 m
	0.80	1.41 m	0.85 m	0.68 m	1.18 m	0.71 m	0.56 m	0.96 m	0.58 m	0.46 m	0.81 m	0.49 m	0.39 m	1.50 m
	0.90	2.16 m	1.29 m	1.03 m	1.80 m	1.08 m	0.86 m	1.47 m	0.88 m	0.71 m	1.24 m	0.75 m	0.60 m	1.70 m
	1.00	2.91 m	1.75 m	1.40 m	2.43 m	1.46 m	1.16 m	1.98 m	1.19 m	0.95 m	1.68 m	1.01 m	0.81 m	1.90 m

Table with spans and clip distances in meter for enclosed halls, e.g. double pitch roof up to 5° roof pitch.

* installation-related, e.g. with lathing or Z-profile



Wind loads according to DIN EN 1991-1-4/NA		Wind zone 2 coasts and islands of Baltic Sea			Wind zone 3 coasts and islands of Baltic Sea			Wind zone 4 coasts of North and Baltic Sea as well as islands of Baltic Sea			Wind zone 4 islands of North Sea			
		Clip distance (m) with			Clip distance (m) with			Clip distance (m) with			Clip distance (m) with			
material	thick-ness (mm)	H (standard area) $c_{pe,1}$ = -1.2	G (edge area) $c_{pe,1}$ = -2.0	F (corner area) $c_{pe,1}$ = -2.5	H (standard area) $c_{pe,1}$ = -1.2	G (edge area) $c_{pe,1}$ = -2.0	F (corner area) $c_{pe,1}$ = -2.5	H (standard area) $c_{pe,1}$ = -1.2	G (edge area) $c_{pe,1}$ = -2.0	F (corner area) $c_{pe,1}$ = -2.5	H (standard area) $c_{pe,1}$ = -1.2	G (edge area) $c_{pe,1}$ = -2.0	F (corner area) $c_{pe,1}$ = -2.5	max. span limit for acces-sibility*
		Height of building h ≤ 10.00 m												
		q = 0.85 kN/m²			q = 1.05 kN/m²			q = 1.25 kN/m²			q = 1.40 kN/m²			
		w=1.02 kN/m²	w=1.70 kN/m²	w=2.13 kN/m²	w=1.26 kN/m²	w=2.10 kN/m²	w=2.63 kN/m²	w=1.50 kN/m²	w=2.50 kN/m²	w=3.13 kN/m²	w=1.68 kN/m²	w=2.80 kN/m²	w=3.50 kN/m²	
Steel	0.63	1.29 m	0.78 m	0.62 m	1.05 m	0.63 m	0.50 m	0.88 m	0.53 m	0.42 m	0.79 m	0.47 m	0.38 m	1.60 m
	0.75	1.29 m	0.78 m	0.62 m	1.05 m	0.63 m	0.50 m	0.88 m	0.53 m	0.42 m	0.79 m	0.47 m	0.38 m	2.40 m
Aluminium	0.70	0.95 m	0.57 m	0.46 m	0.77 m	0.46 m	0.37 m	0.65 m	0.39 m	0.31 m	0.58 m	0.35 m	0.28 m	1.20 m
	0.80	1.25 m	0.75 m	0.60 m	1.01 m	0.60 m	0.48 m	0.85 m	0.51 m	0.41 m	0.76 m	0.45 m	0.36 m	1.50 m
	0.90	1.90 m	1.14 m	0.91 m	1.54 m	0.92 m	0.74 m	1.29 m	0.78 m	0.62 m	1.15 m	0.69 m	0.55 m	1.70 m
	1.00	2.57 m	1.54 m	1.23 m	2.08 m	1.25 m	1.00 m	1.75 m	1.05 m	0.84 m	1.56 m	0.94 m	0.75 m	1.90 m

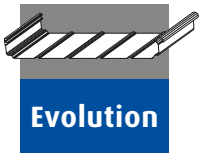
		Height of building h > 10.00 m ≤ 18.00 m												
		q = 1.00 kN/m²			q = 1.20 kN/m²			q = 1.40 kN/m²						
		w=1.20 kN/m²	w=2.00 kN/m²	w=2.50 kN/m²	w=1.44 kN/m²	w=2.40 kN/m²	w=3.00 kN/m²	w=1.68 kN/m²	w=2.80 kN/m²	w=3.50 kN/m²				
Steel	0.63	1.10 m	0.66 m	0.53 m	0.92 m	0.55 m	0.44 m	0.79 m	0.47 m	0.38 m				1.60 m
	0.75	1.10 m	0.66 m	0.53 m	0.92 m	0.55 m	0.44 m	0.79 m	0.47 m	0.38 m				2.40 m
Aluminium	0.70	0.81 m	0.49 m	0.39 m	0.67 m	0.40 m	0.32 m	0.58 m	0.35 m	0.28 m				1.20 m
	0.80	1.06 m	0.64 m	0.51 m	0.88 m	0.53 m	0.42 m	0.76 m	0.45 m	0.36 m				1.50 m
	0.90	1.62 m	0.97 m	0.78 m	1.35 m	0.81 m	0.65 m	1.15 m	0.69 m	0.55 m				1.70 m
	1.00	2.18 m	1.31 m	1.05 m	1.82 m	1.09 m	0.87 m	1.56 m	0.94 m	0.75 m				1.90 m

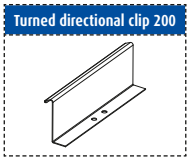
		Height of building h > 18.00 m ≤ 25.00 m												
		q = 1.10 kN/m²			q = 1.30 kN/m²			q = 1.55 kN/m²						
		w=1.32 kN/m²	w=2.20 kN/m²	w=2.75 kN/m²	w=1.56 kN/m²	w=2.60 kN/m²	w=3.25 kN/m²	w=1.86 kN/m²	w=3.10 kN/m²	w=3.88 kN/m²				
Steel	0.63	1.00 m	0.60 m	0.48 m	0.85 m	0.51 m	0.41 m	0.71 m	0.43 m	0.34 m				1.60 m
	0.75	1.00 m	0.60 m	0.48 m	0.85 m	0.51 m	0.41 m	0.71 m	0.43 m	0.34 m				2.40 m
Aluminium	0.70	0.73 m	0.44 m	0.35 m	0.62 m	0.37 m	0.30 m	0.52 m	0.31 m	0.25 m				1.20 m
	0.80	0.96 m	0.58 m	0.46 m	0.81 m	0.49 m	0.39 m	0.68 m	0.41 m	0.33 m				1.50 m
	0.90	1.47 m	0.88 m	0.71 m	1.24 m	0.75 m	0.60 m	1.04 m	0.63 m	0.50 m				1.70 m
	1.00	1.98 m	1.19 m	0.95 m	1.68 m	1.01 m	0.81 m	1.41 m	0.85 m	0.68 m				1.90 m

Table with spans and clip distances in meter for enclosed halls,
e.g. double pitch roof up to 5° roof pitch.

* installation-related, e.g. with lathing or Z-profile

SPANS / CLIP DISTANCES RIB-ROOF EVOLUTION

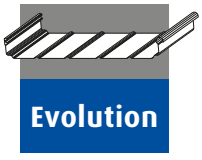


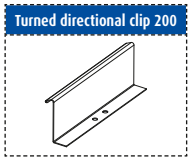


Wind loads according to DIN EN 1991-1-4/NA		Wind zone 1 inland			Wind zone 2 inland			Wind zone 3 inland			Wind zone 4 inland			
		Clip distance (m) with			Clip distance (m) with			Clip distance (m) with			Clip distance (m) with			
material	thick-ness (mm)	H (standard area) $c_{pe,1}$=- 1.2	G (edge area) $c_{pe,1}$= -2.0	F (corner area) $c_{pe,1}$= -2.5	H (standard area) $c_{pe,1}$= -1.2	G (edge area) $c_{pe,1}$= -2.0	F (corner area) $c_{pe,1}$= -2.5	H (standard area) $c_{pe,1}$= -1.2	G (edge area) $c_{pe,1}$= -2.0	F (corner area) $c_{pe,1}$= -2.5	H (standard area) $c_{pe,1}$= 1.2	G (edge area) $c_{pe,1}$= 2.0	F (corner area) $c_{pe,1}$= 2.5	max. span limit for acces-sibility*
		Height of building h ≤ 10.00 m												
		q = 0.50 kN/m²			q = 0.65 kN/m²			q = 0.80 kN/m²			q = 0.95 kN/m²			
		w=0.60 kN/m²	w=1.00 kN/m²	w=1.25 kN/m²	w=0.78 kN/m²	w=1.30 kN/m²	w=1.63 kN/m²	w=0.96 kN/m²	w=1.60 kN/m²	w=2.00 kN/m²	w=1.14 kN/m²	w=1.90 kN/m²	w=2.38 kN/m²	
Steel	0.63	4.47 m	2.68 m	2.14 m	3.44 m	2.06 m	1.65 m	2.79 m	1.68 m	1.34 m	2.35 m	1.41 m	1.13 m	1.60 m
	0.75	4.47 m	2.68 m	2.14 m	3.44 m	2.06 m	1.65 m	2.79 m	1.68 m	1.34 m	2.35 m	1.41 m	1.13 m	2.40 m
Aluminium	0.70	3.05 m	1.83 m	1.46 m	2.35 m	1.41 m	1.13 m	1.91 m	1.14 m	0.92 m	1.61 m	0.96 m	0.77 m	1.20 m
	0.80	3.98 m	2.39 m	1.91 m	3.06 m	1.84 m	1.47 m	2.49 m	1.49 m	1.20 m	2.10 m	1.26 m	1.01 m	1.50 m
	0.90	4.90 m	2.94 m	2.35 m	3.77 m	2.26 m	1.81 m	3.06 m	1.84 m	1.47 m	2.58 m	1.55 m	1.24 m	1.70 m
	1.00	5.80 m	3.48 m	2.78 m	4.46 m	2.68 m	2.14 m	3.63 m	2.18 m	1.74 m	3.05 m	1.83 m	1.47 m	1.90 m
		Height of building h > 10.00 m ≤ 18.00 m												
		q = 0.65 kN/m²			q = 0.80 kN/m²			q = 0.95 kN/m²			q = 1.15 kN/m²			
		w=0.78 kN/m²	w=1.30 kN/m²	w=1.63 kN/m²	w=0.96 kN/m²	w=1.60 kN/m²	w=2.00 kN/m²	w=1.14 kN/m²	w=1.90 kN/m²	w=2.38 kN/m²	w=1.38 kN/m²	w=2.30 kN/m²	w=2.88 kN/m²	
Steel	0.63	3.44 m	2.06 m	1.65 m	2.79 m	1.68 m	1.34 m	2.35 m	1.41 m	1.13 m	1.94 m	1.17 m	0.93 m	1.60 m
	0.75	3.44 m	2.06 m	1.65 m	2.79 m	1.68 m	1.34 m	2.35 m	1.41 m	1.13 m	1.94 m	1.17 m	0.93 m	2.40 m
Aluminium	0.70	2.35 m	1.41 m	1.13 m	1.91 m	1.14 m	0.92 m	1.61 m	0.96 m	0.77 m	1.33 m	0.80 m	0.64 m	1.20 m
	0.80	3.06 m	1.84 m	1.47 m	2.49 m	1.49 m	1.20 m	2.10 m	1.26 m	1.01 m	1.73 m	1.04 m	0.83 m	1.50 m
	0.90	3.77 m	2.26 m	1.81 m	3.06 m	1.84 m	1.47 m	2.58 m	1.55 m	1.24 m	2.13 m	1.28 m	1.02 m	1.70 m
	1.00	4.46 m	2.68 m	2.14 m	3.63 m	2.18 m	1.74 m	3.05 m	1.83 m	1.47 m	2.52 m	1.51 m	1.21 m	1.90 m
		Height of building h > 18.00 m ≤ 25.00 m												
		q = 0.75 kN/m²			q = 0.90 kN/m²			q = 1.10 kN/m²			q = 1.30 kN/m²			
		w=0.90 kN/m²	w=1.50 kN/m²	w=1.88 kN/m²	w=1.08 kN/m²	w=1.80 kN/m²	w=2.25 kN/m²	w=1.32 kN/m²	w=2.20 kN/m²	w=2.75 kN/m²	w=1.56 kN/m²	w=2.60 kN/m²	w=3.25 kN/m²	
Steel	0.63	2.98 m	1.79 m	1.43 m	2.48 m	1.49 m	1.19 m	2.03 m	1.22 m	0.97 m	1.72 m	1.03 m	0.82 m	1.60 m
	0.75	2.98 m	1.79 m	1.43 m	2.48 m	1.49 m	1.19 m	2.03 m	1.22 m	0.97 m	1.72 m	1.03 m	0.82 m	2.40 m
Aluminium	0.70	2.03 m	1.22 m	0.98 m	1.69 m	1.02 m	0.81 m	1.39 m	0.83 m	0.67 m	1.17 m	0.70 m	0.56 m	1.20 m
	0.80	2.66 m	1.59 m	1.27 m	2.21 m	1.33 m	1.06 m	1.81 m	1.09 m	0.87 m	1.53 m	0.92 m	0.74 m	1.50 m
	0.90	3.27 m	1.96 m	1.57 m	2.72 m	1.63 m	1.31 m	2.23 m	1.34 m	1.07 m	1.88 m	1.13 m	0.90 m	1.70 m
	1.00	3.87 m	2.32 m	1.86 m	3.22 m	1.93 m	1.55 m	2.64 m	1.58 m	1.27 m	2.23 m	1.34 m	1.07 m	1.90 m

Table with spans and clip distances in meter for enclosed halls, e.g. double pitch roof up to 5° roof pitch.

* installation-related, e.g. with lathing or Z-profile





Wind loads according to DIN EN 1991-1-4/NA		Wind zone 2 coasts and islands of Baltic Sea			Wind zone 3 coasts and islands of Baltic Sea			Wind zone 4 coasts of North and Baltic Sea as well as islands of Baltic Sea			Wind zone 4 islands of North Sea			
		Clip distance (m) with			Clip distance (m) with			Clip distance (m) with			Clip distance (m) with			
material	thick-ness (mm)	H (standard area) $c_{pe,1}$ = -1.2	G (edge area) $c_{pe,1}$ = -2.0	F (corner area) $c_{pe,1}$ = -2.5	H (standard area) $c_{pe,1}$ = -1.2	G (edge area) $c_{pe,1}$ = -2.0	F (corner area) $c_{pe,1}$ = -2.5	H (standard area) $c_{pe,1}$ = -1.2	G (edge area) $c_{pe,1}$ = -2.0	F (corner area) $c_{pe,1}$ = -2.5	H (standard area) $c_{pe,1}$ = -1.2	G (edge area) $c_{pe,1}$ = -2.0	F (corner area) $c_{pe,1}$ = -2.5	max. span limit for acces-sibility*
		Height of building h ≤ 10.00 m												
		q = 0.85 kN/m²			q = 1.05 kN/m²			q = 1.25 kN/m²			q = 1.40 kN/m²			
		w=1.02 kN/m²	w=1.70 kN/m²	w=2.13 kN/m²	w=1.26 kN/m²	w=2.10 kN/m²	w=2.63 kN/m²	w=1.50 kN/m²	w=2.50 kN/m²	w=3.13 kN/m²	w=1.68 kN/m²	w=2.80 kN/m²	w=3.50 kN/m²	
Steel	0.63	2.63 m	1.58 m	1.26 m	2.13 m	1.28 m	1.02 m	1.79 m	1.07 m	0.86 m	1.60 m	0.96 m	0.77 m	1.60 m
	0.75	2.63 m	1.58 m	1.26 m	2.13 m	1.28 m	1.02 m	1.79 m	1.07 m	0.86 m	1.60 m	0.96 m	0.77 m	2.40 m
Aluminium	0.70	1.79 m	1.08 m	0.86 m	1.45 m	0.87 m	0.70 m	1.22 m	0.73 m	0.59 m	1.09 m	0.65 m	0.52 m	1.20 m
	0.80	2.34 m	1.41 m	1.12 m	1.90 m	1.14 m	0.91 m	1.59 m	0.96 m	0.76 m	1.42 m	0.85 m	0.68 m	1.50 m
	0.90	2.88 m	1.73 m	1.38 m	2.33 m	1.40 m	1.12 m	1.96 m	1.18 m	0.94 m	1.75 m	1.05 m	0.84 m	1.70 m
	1.00	3.41 m	2.05 m	1.64 m	2.76 m	1.66 m	1.33 m	2.32 m	1.39 m	1.11 m	2.07 m	1.24 m	0.99 m	1.90 m

		Height of building h > 10.00 m ≤ 18.00 m												
		q = 1.00 kN/m²			q = 1.20 kN/m²			q = 1.40 kN/m²						
		w=1.20 kN/m²	w=2.00 kN/m²	w=2.50 kN/m²	w=1.44 kN/m²	w=2.40 kN/m²	w=3.00 kN/m²	w=1.68 kN/m²	w=2.80 kN/m²	w=3.50 kN/m²				
Steel	0.63	2.23 m	1.34 m	1.07 m	1.86 m	1.12 m	0.89 m	1.60 m	0.96 m	0.77 m				1.60 m
	0.75	2.23 m	1.34 m	1.07 m	1.86 m	1.12 m	0.89 m	1.60 m	0.96 m	0.77 m				2.40 m
Aluminium	0.70	1.53 m	0.92 m	0.73 m	1.27 m	0.76 m	0.61 m	1.09 m	0.65 m	0.52 m				1.20 m
	0.80	1.99 m	1.20 m	0.96 m	1.66 m	1.00 m	0.80 m	1.42 m	0.85 m	0.68 m				1.50 m
	0.90	2.45 m	1.47 m	1.18 m	2.04 m	1.23 m	0.98 m	1.75 m	1.05 m	0.84 m				1.70 m
	1.00	2.90 m	1.74 m	1.39 m	2.42 m	1.45 m	1.16 m	2.07 m	1.24 m	0.99 m				1.90 m

		Height of building h > 18.00 m ≤ 25.00 m												
		q = 1.10 kN/m²			q = 1.30 kN/m²			q = 1.55 kN/m²						
		w=1.32 kN/m²	w=2.20 kN/m²	w=2.75 kN/m²	w=1.56 kN/m²	w=2.60 kN/m²	w=3.25 kN/m²	w=1.86 kN/m²	w=3.10 kN/m²	w=3.88 kN/m²				
Steel	0.63	2.03 m	1.22 m	0.97 m	1.72 m	1.03 m	0.82 m	1.44 m	0.86 m	0.69 m				1.60 m
	0.75	2.03 m	1.22 m	0.97 m	1.72 m	1.03 m	0.82 m	1.44 m	0.86 m	0.69 m				2.40 m
Aluminium	0.70	1.39 m	0.83 m	0.67 m	1.17 m	0.70 m	0.56 m	0.98 m	0.59 m	0.47 m				1.20 m
	0.80	1.81 m	1.09 m	0.87 m	1.53 m	0.92 m	0.74 m	1.28 m	0.77 m	0.62 m				1.50 m
	0.90	2.23 m	1.34 m	1.07 m	1.88 m	1.13 m	0.90 m	1.58 m	0.95 m	0.76 m				1.70 m
	1.00	2.64 m	1.58 m	1.27 m	2.23 m	1.34 m	1.07 m	1.87 m	1.12 m	0.90 m				1.90 m

Table with spans and clip distances in meter for enclosed halls,
e.g. double pitch roof up to 5° roof pitch.

* installation-related, e.g. with lathing or Z-profile

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