

3 The **RIB-ROOF** principles



CONSISTENTLY TOWARDS THE TARGET SET.

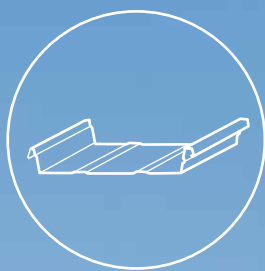
The unique feature of RIB-ROOF metal roofing systems is the way they are installed. It gives you unbeatable advantages in planning, project processing and its roof function. Your possibilities increase – in design and calculative.

The RIB-ROOF installation technology is based on technical features: The three RIB-ROOF principles. Our metal roofing systems differ in appearance, though our RIB-ROOF principles can uncompromisingly be realized in all our different systems.

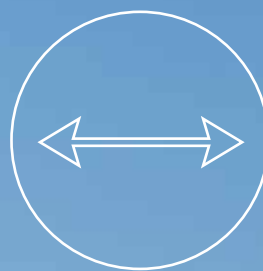




HOLDING CLIP



PROFILED SHEET



PHYSICAL FORCES



3 PRINCIPLES

GEOMETRICAL
CONFORMITY

INSTALLATION
EFFICIENCY

SYSTEM
EFFICIENCY



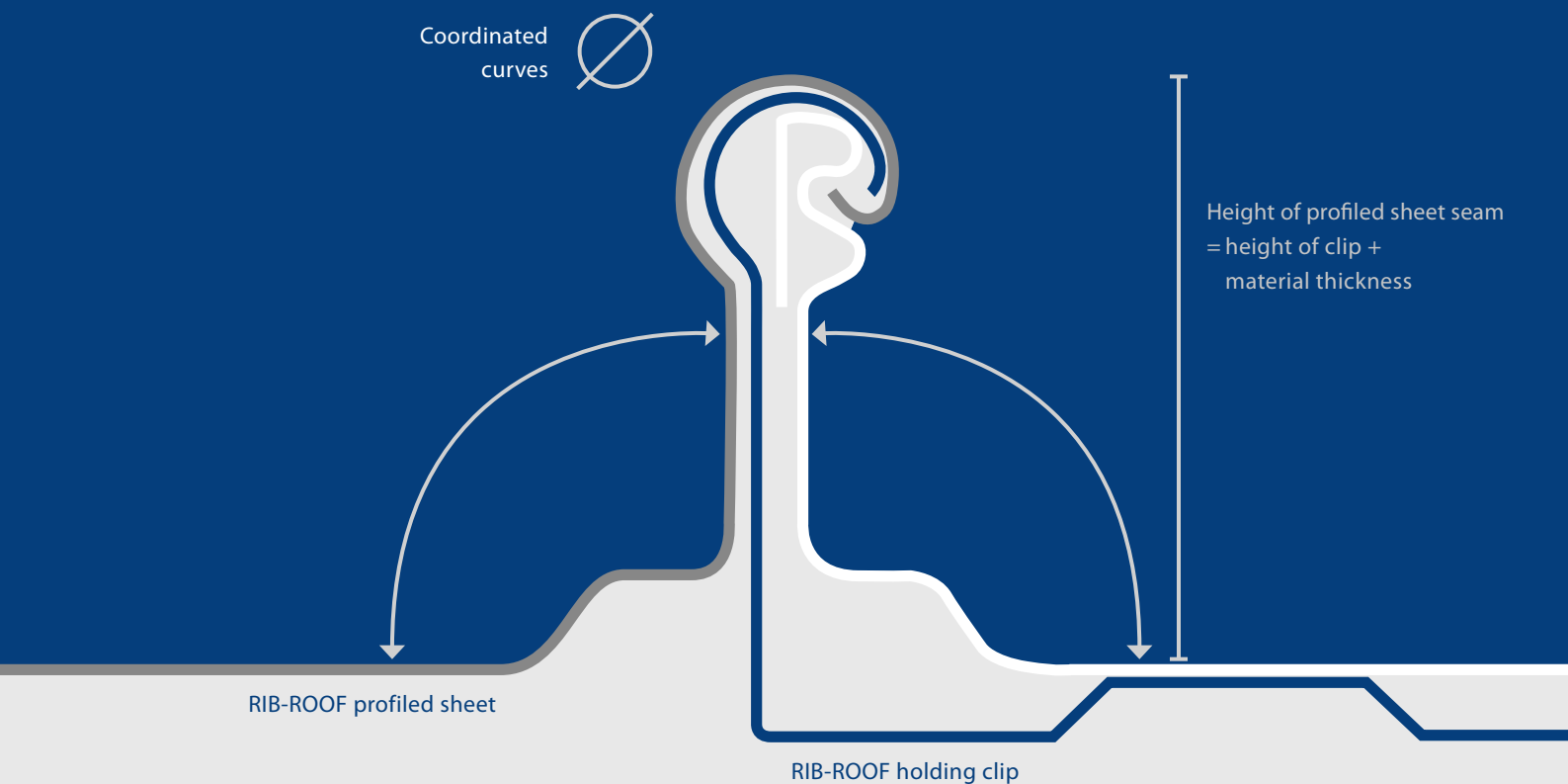
RIB-ROOF principle

#1



GEOMETRICAL CONFORMITY.

The **profiled sheet seam** and **clip form a construction unit** at all RIB-ROOF metal roofing systems. The clip head exactly corresponds to the inner shape of the profiled sheet seam. Clip and seam height are compatible. All elements are exactly manufactured, no further adjustment works at construction site are necessary, e.g. mechanically zipping.



Benefits.

- ✓ **ABSORBING HIGH WIND LOADS.**
High suction forces do not harm the RIB-ROOF profiled sheets. It can be used both in the mountains and on seashore as a building envelope.
- ✓ **ABSOLUTE RAIN RESISTANCE.**
RIB-ROOF metal roofing systems are non-penetrating installed. No screws or retaining elements perforate the roof skin.
- ✓ **LONG DURABILITY.**
Clip and profiled sheet seam mutually stabilize each other through their geometry. Now they are consistently connected. Leverage forces, tilting movements and unwanted bending are excluded.

RIB-ROOF principle

#2



INSTALLATION EFFICIENCY.

The installation technology of all metal roofing systems has been optimized in such a way that the roof covering can thus be realized quickly and with little effort. The **direct profiled sheet - clip installation** of all systems provides for a smooth and fluent installation process. No mechanically zipping is necessary due to the profiled sheet connection with the RIB-ROOF seam.



Simple steps for a perfect result.

The direct profiled sheet-clip installation.

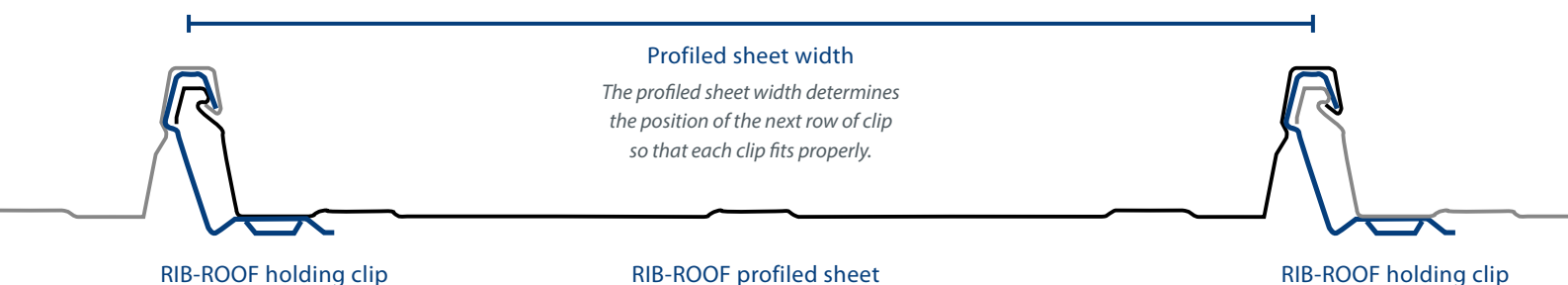
Zambelli dispenses with the complex determination of the correct clip position before installing the profiled sheets. The construction width of the profiled sheet determines the next row of clips. At first, the clip is swivelled into the profiled sheet, then the clip is screwed with the substructure.

Advantages.

- ✓ **SIGNIFICANT SAVING IN TERMS OF TIME.**
The process regarding the pre-measuring and positioning of all retaining clips is omitted.
- ✓ **NO TOLERANCE ERRORS.**
If the profiled sheets are correctly installed, later appearing weak points, caused by false positioning of clips, can be avoided.
- ✓ **LONG-TERM FUNCTIONAL RELIABILITY.**
All clips are parallel mounted to the profiled sheet. The roof skin can stretch free from tension and, in return, shrink.

AT FIRST SWIVEL IN, THEN TIGHTEN!

In doing so, the clip is aligned parallel. It is much easier to comply with tolerances. Negative tensions impacting the profiled sheet connection are avoided on this occasion.





Long enjoyment on a positive result.

The RIB-ROOF sliding standing seam.

The RIB-ROOF profiled sheet connection uses the principle of a positive locking. The positive locking arises out of interlocking of adjacent profiled sheet seams. The next profiled sheet is swivelled in and is clicked into the clip. Therefore, no mechanically zipping of the profiled sheet seam is necessary anymore.

Benefits.



SECURE PROFILED SHEET CONNECTION.

The positive connection cannot be released under high stress.



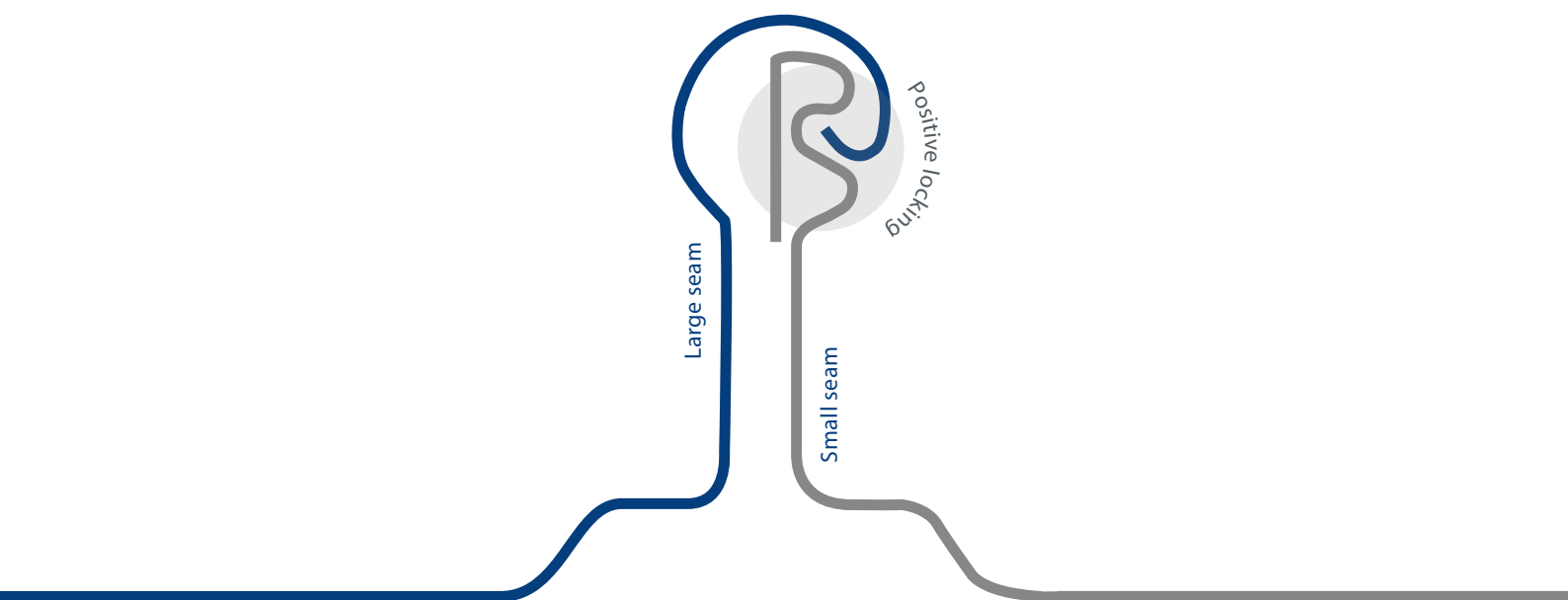
OPTIMAL SLIDING ABILITY.

No screwing of the profiled sheets is necessary due to the connection of the RIB-ROOF clips. There will arise no compressive and upsetting forces which could damage the material.



HIGH DIFFUSIVITY.

The profiled sheet connection by means of a positive locking allows for a better water vapour permeability as profiled sheet zipping.



Detailed view of profiled sheet connection.

SWIVEL IN INSTEAD OF CLAMPING!

The profiled sheets are swivelled into the already installed profiled sheet and fixed clips. The rotation locks everything into place. It creates a secure connection.

RIB-ROOF

principle

#3

SYSTEM EFFICIENCY.

The development of the RIB-ROOF metal roofing systems takes place by a constant quest regarding the system efficiency. An **individual customizable roof skin** has been created by prior mentioned repeating process. All technical components can be adapted to the project needs. Different shapes of profiled sheets, specific demanded fixing clips and an additional functioning scope of accessories result in a **homogeneous metal roof**, appropriate for the necessary construction task.

Benefits.



REDUCTION OF PROJECT COMPLEXITY.

The RIB-ROOF installation technology reduces the planning effort and offers for more calculation reliability.

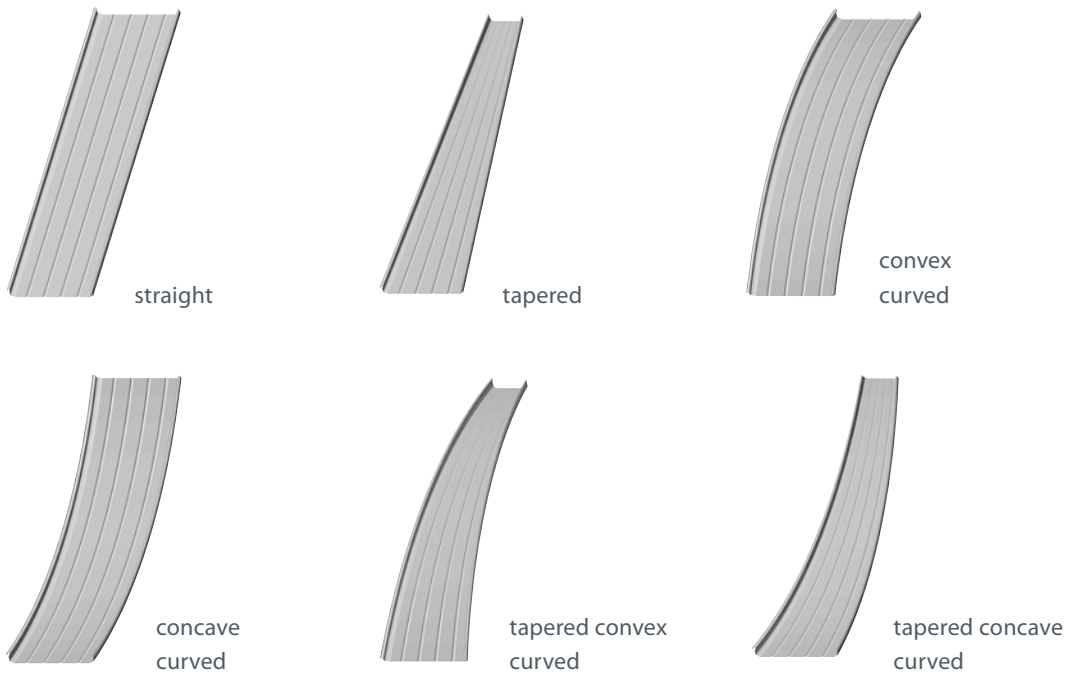


FUNCTIONAL SAFETY AT ANY TIME.

Depending on the load, effecting the roof surface or the required roof geometry, demand-dependent holding clips are available for each RIB-ROOF system.

The variety of forms of the RIB-ROOF profiled sheets.

On basis of RIB-ROOF Evolution system



The innovative holding systems.

On basis of different examples



Standard clip RIB-ROOF Speed 500
Quick installation of simple roof areas without increased demands.



Turned standard clip RIB-ROOF Speed 500
Secure installation of curved profiled sheets with radii less than 100 m.



The RIB-ROOF Speed 500 clip border
The clip border can directly be fixed onto the supporting structure in the case of fully-bonded supports. Such a process saves time with a maximum fastening safety.



Directional clip 200 mm RIB-ROOF Evolution
Ideal for optimization for the control of long profiled sheets or with increased wind loads.

Roof built-ups for every execution.

All common substructures are possible for the RIB-ROOF metal roofing system. Our systems are, therefore, equally suitable for economical new buildings, challenging architecture and roof renovations.



The use of wooden substructures saves weight and is, therefore, often the only appropriate solution in the case of renovation.

Benefits.



APPROPRIATE FREEDOM OF CHOICE REGARDING INSTALLATION TECHNOLOGY.

Whether thermal insulation with diffusion-open protective sheet or compressed thermal insulation – everything is possible.

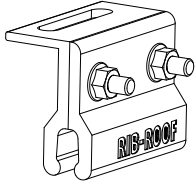


INSTALLATION-FRIENDLY ENERGY EFFICIENCY.

The best U-values for RIB-ROOF metal roofs can even be reached with a simple substructure.

Adapted accessories.

RIB-ROOF metal roofs characterize themselves by an extended range of functions. You will find some processed ready-to-install-components in our systems.



Photovoltaic modules can be fastened on the roof by means of our solar bracket.

Benefits.



ABSOLUTE RAIN RESISTANCE.

All RIB-ROOF components are fixed in such a way that no roof penetration is necessary.



READY-TO-INSTALL.

A RIB-ROOF roof can functionally be extended at any time due to its large range of accessories. All of those are approved components which can quickly and easily be installed.



HIGH EFFICIENCY.

The RIB-ROOF systems cover most of all common applications by means of their delivery program. This keeps the organization and planning effort temporally and arithmetically simple. The roof can be refitted at any time.



Safety on the roof provide for different conformist fall arrest systems.

Accessories, as the fall arrest system pictured on the right, can be installed without perforating the profiled sheet seam by means of system-own brackets.



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