

Simple – superior!  
We have redefined the economic silo construction.

Up to 30% less assembly time – 100% Zeppelin quality.

Silo Technology



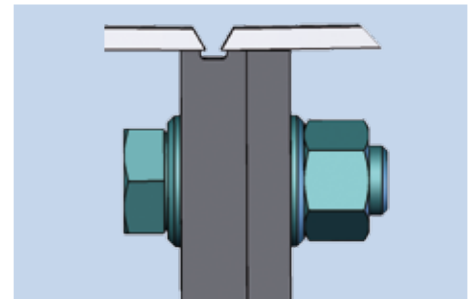
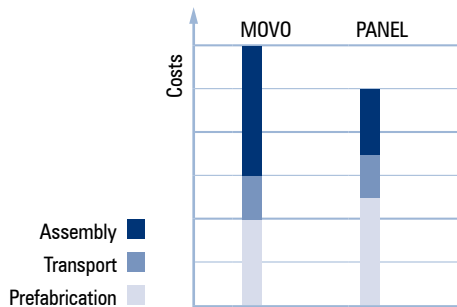
# Cost advantage and time saving: Zeppelin silos in the Panel-Tec-Design.

Zeppelin as the world market leader shows its strength in the construction of silos with a volume of more than 500 m<sup>3</sup>.

The new Panel-Tec-Design ensures distinct advantages – lower assembly times and at the same time testable Zeppelin quality due to the innovative flange design and the assembly technologies. The concept: individual silo sections are prefabricated in our factory to the maximum possible extent and provided with flanges. These sections are transported in containers to the assembly site. There the sections are fitted and bolted together. The silo can be mounted hanging from the crane or in a horizontal position. Afterwards the silos are automatically welded in the horizontal position from the inside. The assembly is much faster than with conventional procedures and moreover can take place regardless of the weather.

## Testable welding quality ensures cost advantages:

Due to the innovative design of the flange connection it is possible to test the welds at the flange. The advantage for you: due to the documentation of a non destructive test of the welds (e.g. ultrasonic) the joint efficiency can be increased and thereby permits a better utilization of the wall thicknesses of the silo. Furthermore the flange connections for use as assembly aid improve the stability against buckling and also lead to the optimization of the wall thicknesses.



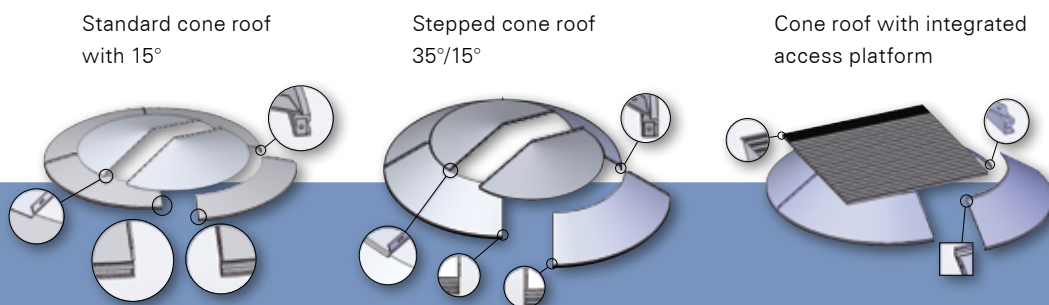
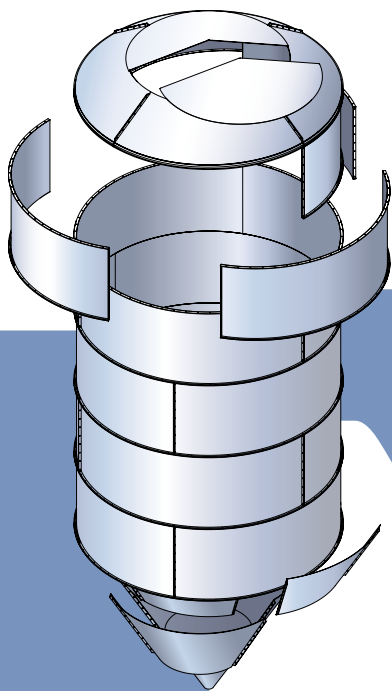
Longitudinal flange - back-up bar retainer for welding and subsequent non destructive testing



**From the roof to the cone**  
**Full of smart ideas.**

The experts at Zeppelin have thought about everything regarding the new Panel-Tec-Design. The new cone design allows a fast and precise orientation and alignment of the cone portions – of course the cone has no edges or no protrusions in the interior of the silo. This also ensures the optimum bulk-material flow without having the need to grind the welding seams. For the silo roof you have the choice: in total 3 options are available.

All process engineering options to equip the silo with the market leading blending devices or the gas inlet and distribution devices of Zeppelin are also available for silos in the Panel-Tec-Design.



Silo Diameter	Roof Design	Cylindrical Height (TL to TL)	Skirt Height	Total cylindrical Height	Net Volume	Factor
6000 mm	15°	17500 mm	500 mm	18000 mm	501 m <sup>3</sup>	1:3,0
6000 mm	35°/15° or 35°/ flat	17500 mm	500 mm	18000 mm	512 m <sup>3</sup>	1:3,0
7000 mm	35°/15° or 35°/ flat	18500 mm	500 mm	19000 mm	752 m <sup>3</sup>	1:2,7
8000 mm	35°/15° or 35°/ flat	18500 mm	500 mm	19000 mm	1000 m <sup>3</sup>	1:2,4
9000 mm	35°/15° or 35°/ flat	21500 mm	500 mm	22000 mm	1500 m <sup>3</sup>	1:2,4
10000 mm	35°/15° or 35°/ flat	23500 mm	500 mm	24000 mm	2000 m <sup>3</sup>	1:2,4



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