AEROCOMPACT® Press Release

Revolutionary mounting solution for sandwich roofs

AEROCOMPACT launches patented support system for PV installations

Satteins, Austria, Sept. 9, 2021. The Austrian expert in PV mounting solutions AEROCOMPACT has developed a new support system for solar power systems on sandwich panels. The patented racking system is the first solution on the market that neither stresses nor damages the panels as it transfers all compressive and tensile forces directly into the roof's substructure. At the heart of the racking solution from the COMPACT METAL modular system is the 5.8-meter TR74 support rail, which has been available since August.

With its new racking solution, AEROCOMPACT has solved an industry-wide problem: Until now, installers mostly attached PV systems to sandwich panels by screwing the substructure directly to the top layer of the panels with thin sheet metal screws. However, the interaction of forces caused by snow and wind can permanently damage the top layer in the long run, leading to leaks, detachment of the outer shell and a resulting "static ambiguity." Indeed, manufacturers of sandwich panels report large-scale damage to building roofs.

Thanks to AEROCOMPACT's new support system, the rail does not rest directly on the roof, but is connected directly to the purlin below with self-drilling support screws. The PV substructure is supported entirely on it. Therefore, no compressive or tensile forces from wind or snow are introduced into the sandwich panels. "The span of the 5.8-meter long support rail is unique, and the introduction points can absorb very high forces," explains Marco Rusch, Group Head of Corporate Communications at AEROCOMPACT.

Spacer sleeves and additional supports guarantee that the distance between the rail and the roof is maintained evenly, thus ensuring good rear ventilation. A pre-assembled sealing rubber prevents moisture from entering the raised beads. A patented static algorithm regulates the optimal distribution of the support points on the roof in the AEROCOMPACT planning software.

Panel manufacturers are enthusiastic

"Leading manufacturers of sandwich panels are enthusiastic about our construction design," Rusch is pleased to report. He explains, "Usually, PV systems are mounted directly on the roof panels with sheet metal screws, which means compressive and tensile forces act on the panels and damage them. With our design, damage is almost impossible."

For this reason, no approvals or additional verifications from the manufacturers are required for installation, which also makes retrofitting solar power systems in particular much easier. Thus, solar power systems can even be installed with the innovative mounting system on roofs where neither the condition nor the panel manufacturer is known. "Because the roof substructure absorbs all the forces, it is irrelevant which panels were installed and what forces they can withstand," explains Rusch.

Planning load distribution

AEROCOMPACT has integrated the fastening solution – which is suitable for wood, steel and aluminum purlins – into AEROTOOL, its in-house planning tool. There, planners can find automatisms for optimal load distribution. The assembly system has been approved by a federal certification institute. AEROCOMPACT comes with a 25-year warranty.

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From Bangkok to New Orleans

AEROCOMPACT will be exhibiting the new support rail and other new products between September and November of this year at the ASEAN Renewable Energy trade fair in Bangkok, Intersolar Europe in Munich, Key Energy ITALY in Rimini, Renewable Energy India in Greater Noida, Solar Power International in New Orleans, Solar Solutions International in Haarlemmermeer and Solar & Storage Live in Birmingham.

About AEROCOMPACT

AEROCOMPACT was founded in 2014 in Austria and the USA. The company produces and sells PV mounting solutions for flat roofs, pitched roofs and metal roofs, as well as for ground-mounted systems. The company has locations in Austria, the USA and India and an additional 14 sales offices around the world. In total, the company employs around 80 people worldwide.

A PDF of the press release and images can be found at the following link:

https://pressedownload.pr-krampitz.de/20210909 AEROCOMPACT EN.zip

Captions:

Figure 1: The patented system is the first on the market that neither stresses nor damages sandwich panels.

Figure 2: The AEROCOMPACT rail is connected directly to the purlins with self-drilling support screws.

Figure 3: Quick and easy installation: the fastening system in detail.

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Publisher and Press Contact:

Aerocompact Holding GmbH
Marco Rusch
Global Head Corporate Communications
Sonnenstrasse 10
6822 Satteins
Austria
Tel. +43 (0) 5524 225 66
marco.rusch@AEROCOMPACT.com
www.AEROCOMPACT.com