



Site information
Lufthansa Technik AG



Lufthansa Technik AG – still convinced after 25 years

Aircrafts, the most important asset of all flight companies, are according to manufacturers constructed in such a way that they can undergo 30,000 to 110,000 flights, which is equivalent to a service life of more than 20 years.



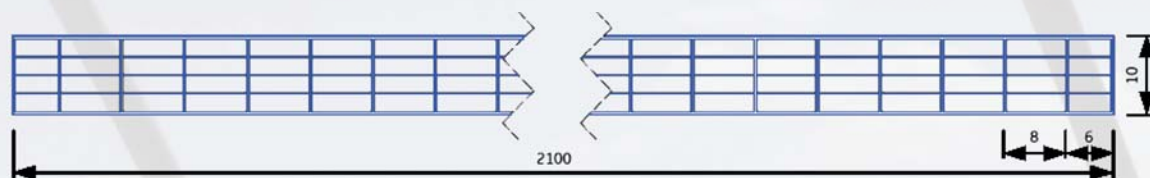
Such a life span can only be achieved by a certain level of quality in conjunction with a regular servicing of the aircrafts, as it is carried out by Lufthansa Technik AG. One of the company's 50 business locations worldwide is situated in Hamburg and offers the so-called MRO services (maintenance, repair and overhaul) for aircrafts. The fact that Lufthansa Technik AG has found a business partner in roda Licht- und Lufttechnik GmbH, who's quality standards are equally high as the ones they know from aircraft technology, is proven by the overhaul hangar n°461.

On top of the 45 m high and 13,000 m² large building, the continuous skylight and ventilation system with SHE function, roda had once delivered, were all still fully functional – even after 25 years of use. Only the infills made from polycarbonate multiwall panels had been damaged by several hailstorms over the years to such an extent that refurbishment became necessary. After having established the current stage of the devices, the conclusion was drawn that the operational reliability was still given and that just the polycarbonate multiwall panels needed to be substituted. The special design of roda devices makes such a replacement possible.

Annelene Hinz, Dipl. Ing.
Senior Project Manager Building Services, HAM TV/F-32
Lufthansa Technik AG

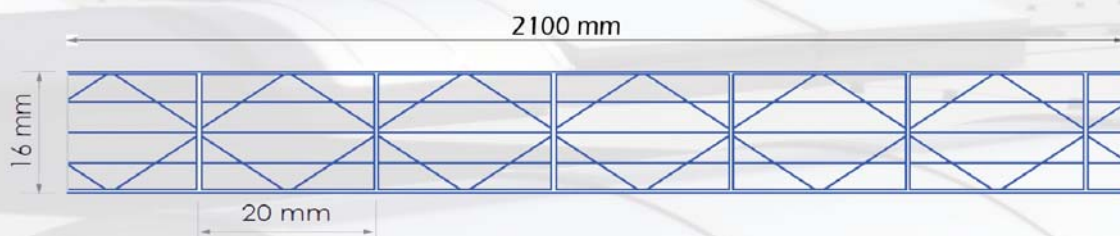
“If after 25 years of use systems are still so good that only the infills need replacing, we can honestly attest roda an excellent quality of their products.”

The newly installed 10 mm and 16 mm polycarbonate multiwall sofflite panels provide 100 % light diffusion by perfectly illuminating the hangar without any glare effects. All in all, 44 EUROLIGHT barrel vault skylight systems were reequipped with 10 mm panels, whilst the 16 mm panels were refitted on 110 FIREFIGHTER smoke and heat extraction and ventilation systems.



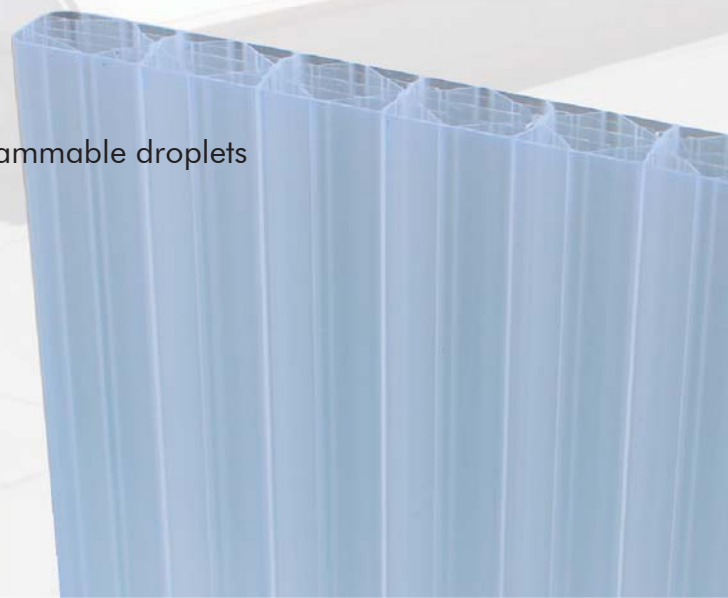
roda 10 mm sofflite

Thickness:	10 mm
Structure:	5-fold
Weight:	1,75 kg/m ²
Translucency:	62%
g-value:	0,64
U-value:	2,39 W/m ² K
UV coating:	on both sides
Fire protection class:	B s1 d0 non-flammable droplets



roda 16 mm sofflite

Thickness:	16 mm
Structure:	5-fold-X
Weight:	2.60 kg/m ²
Translucency:	57%
g-value:	0,56
U-value:	1,88 W/m ² K
UV coating:	on both sides
Fire protection class:	B s1 d0 non-flammable droplets





This picture was taken back in 1991 after the installation.



25 years later, the multiwall panels have yellowed and allow considerably less sunlight to enter the building.



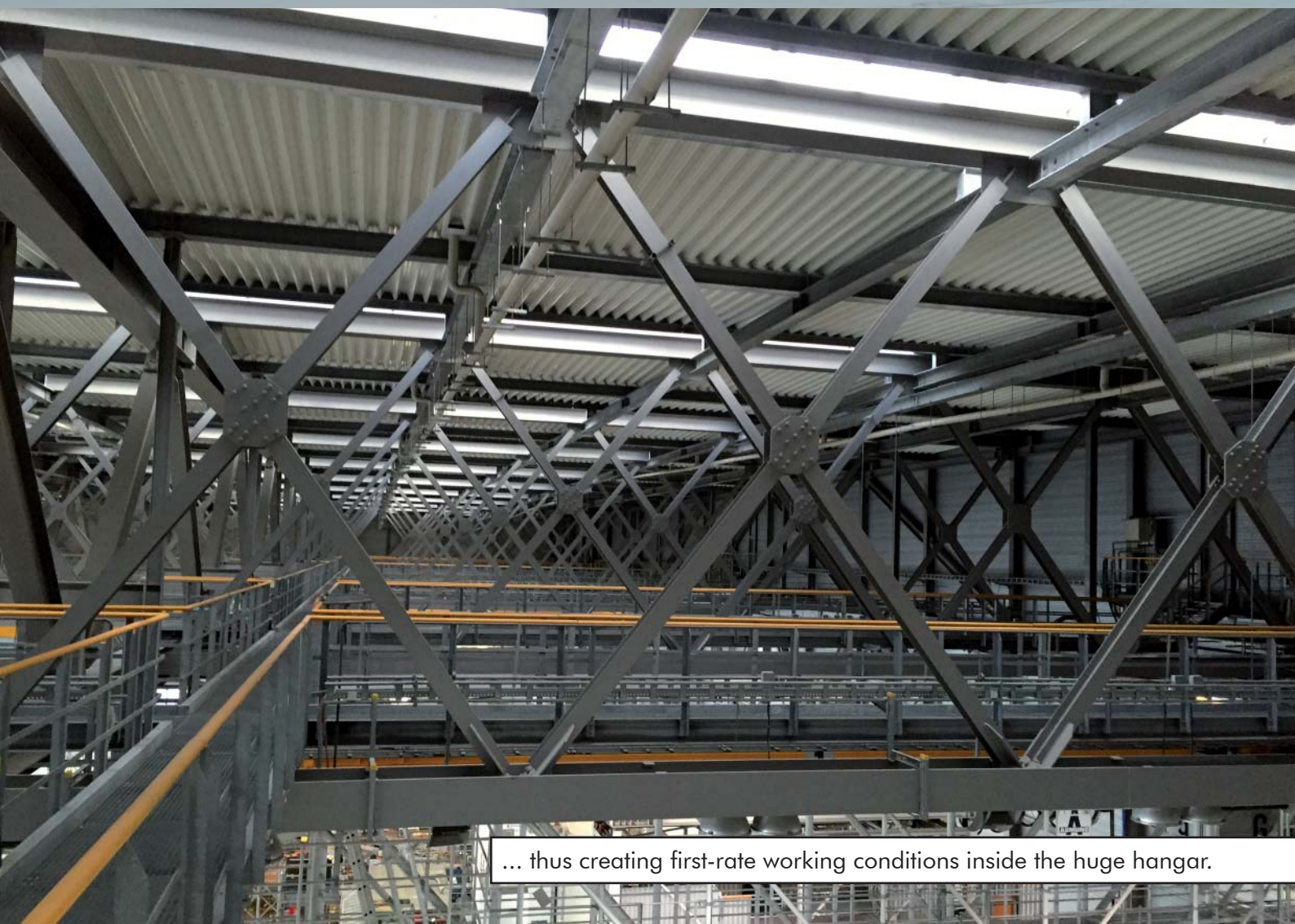
Some of the old polycarbonate multiwall panels had been severely damaged by hailstorms.



The new infills let significantly more daylight into the building.



The sofflite version offers an excellent illumination without any glare effects...



... thus creating first-rate working conditions inside the huge hangar.