Certification of structural analysis for the S-Dome 6.10 System

This certifies the structural examination of the S-Dome 6.10 mounting system.

The design checks in the ultimate limit state of the above mentioned systems as well as the checks of position stability against lifting and sliding are fulfilled for the reference conditions listed below and on the basis of validation checks.

The reference conditions are:

- Angle of inclination: 5° roof inclination, 10° elevation
- Wind load: q_p = 0,85 kN/m²
- Snow load: s_k = 0,85 kN/m²

The calculations were performed in accordance with the following applicable standards: DIN EN 1991-1-4 and -3 and DIN EN 1993 and DIN EN 1999-1-1.

This certification does not serve as a project specific structural analysis report. The structural design for each individual project needs to be carried out considering the local constraints with the dimensioning software Base. The required ballast for the check of position stability will be determined in K2 Base calculation basis.

Renningen, January 2021

Ronald Laude
Dipl. Bauingenieur (FH)
Dipl. civil engineer

K2 Systems GmbH
Industriestraße 18
D- 71272 Renningen
Tel. +49 (0)7159 42059-0
Fax +49 (0)7159 42059-177
info@k2-systems.com
www.k2-systems.com

K2 Systems GmbH · Industriestraße 18 · 71272 Renningen · Germany
+49 (0) 7159 42 059 - 0 · info@k2-systems.com