

Static Proof

of the

KBMS Consult GmbH

Engineer Office of Fire Prevention – Mounting Systems – Solar Energy
PV Plant Experts (TÜV®)

certified the company

Mounting systems for solar technology

K2 Systems GmbH

Industriestraße 18, 71272 Renningen

and its pitched roof mounting system

Speedrail

successful in its application of the sandwich structural component for the product

MONTANATHERM MTD TL 85/1000

in a series of tests that were analyzed and proven based on the sandwich guidelines, in accordance with DIN EN 1990:2010-12, annex D calculated design values were compared with the general building approval design values from December 12, 2014 No. Z-14.4-603:

Type of Experiment	P _{Rd} as per AbZ	P _{Rd} from Test	Utilization
on three support Beams with central Load			
Static Tension Test	1,60 kN	2,80 kN	57 %
Dynamic Tension Test	1,60 kN	3,04 kN	53 %
Static Lateral Force Test	2,95 kN	4,56 kN	65 %
with eccentric Load			
Static Tension Test	1,60 kN	1,72 kN	93 %
Dynamic Tension Test	1,60 kN	1,84 kN	87 %
Static Lateral Force Test	2,95 kN	3,44 kN	86 %
on a short Piece with central Load			
Static Tension Test	1,60 kN	2,56 kN	63 %
Dynamic Tension Test	1,60 kN	2,76 kN	58 %
Static Lateral Force Test	2,95 kN	4,32 kN	68 %
with eccentric Load			
Static Tension Test	1,60 kN	1,60 kN	100 %
Dynamic Tension Test	1,60 kN	1,72 kN	93 %
Static Lateral Force Test	2,95 kN	3,34 kN	88 %

No damage was made to the sandwich panels during these tests!

Hessisch Lichtenau in May 2015




(Dr.-Ing. Thorsten Kühn)