Prüfzentrum für Bauelemente
Dipl.-Ing. (FH) Rüdiger Müller

Fenster · windows
Rollläden · shutters
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Baubeschläge · building hardware

SHORT REPORT No. 2021-01-0414-K3

Version 1.en

Watertightness test of ResiTHERM® 16 (/12) distance mounting system with thermal break for mounting heavy loads to rendered ETICS insulated facades based on DIN EN 1027: 2016-09 "Windows and doors – Watertightness – Test method".

Applicant	CELO Befestigungssysteme GmbH Industriestraße 6 86551 Aichach, Germany
Type	Distance mounting system with thermal break for mounting heavy loads to rendered ETICS insulated facades. When installed, the maximum distance of (≤) 4.5 mm between the top of the cover plate and the surface of the render, when exposed to load, must be ensured.
Product designation	**ResiTHERM® 16 distance mounting system** **ResiTHERM® 12 distance mounting system**
Seals	Integrated EPDM seal, bonded to the bottom side of the ResiTHERM® cover plate, which presses against the surface of the render when installed and thus seals.
Test result	According to test report No. 2021-01-0414-B3 See attachment of this short report

signiert von: Christoph Geiger am: 22.11.2022 mit: digiSeal® by secrypt

Dipl.-Ing. (FH) Christoph Geiger
Head of Notified Test Body

Stephanskirchen
21.11.2022

signiert von: Cornelius Würfel am: 22.11.2022 mit: digiSeal® by secrypt

Cornelius Würfel B.Eng.
Responsible Official

This document was written in German and translated into English. In case of discrepancies between the two language versions, the German version shall prevail.

Short report No. 2021-01-0414-K3 dated 21.11.2022, Version 1.en
CELO Befestigungssysteme GmbH, 86551 Aichach, Germany

Test result According to test report No. 2021-01-0414-B3

Watertightness based on EN 1027 Method 1A
(exposed installation)

ResiTHERM® 16 (/12)
Mounted with 4.5 mm distance of cover plate top side to rendered ETICS surface.
After installation, 10,000 load cycles / deflections were carried out (axis of mounting system ≙ zero position; absolute downward deflection from 0.8 to 2.0 mm; starting deflection +1,0 mm; cyclical deflection Δx +1.0 mm / -0.2 mm; frequency 0.125 Hz).
This was followed by the watertightness test with a 3 mm static downward deflection.
The test was conducted on scraped plaster, grain size K3.
Watertightness is ensured as long as the maximum distance (≤) 4.5 mm between the top of the cover plate and the rendered surface, when exposed to load, is maintained.

Watertight after load cycling up to and including 600 Pa
(corresponds to wind force 11 of the Beaufort scale (Bft))

Measurement uncertainties were not included in the evaluation.