

Test report

Report no.:
154/17



**DANISH
TECHNOLOGICAL
INSTITUTE**

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Customer: Kasper Ehlert
Fade Acoustic Ceilings Europe ApS
Stamholmen 157
DK-2650 Hvidovre

Sample: Fade Acoustical Plaster – PLUS+

Sampling: The samples have been received here on 8 May 2017

Period: The testing has been carried out 9 May – 20 June 2017

Procedure: ASTM G 154-16 Standard practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for exposure of non-metallic Materials


Result: ISO 18314-1, 2015 Analytical colometry – Part 1: Practical colour measurement.
Calculation of colour difference $\Delta E^*_{a,b}$.
Colour difference after 1000 hours of exposure to UV light:
PLUS+: $\Delta E^*_{a,b} = 0.1$

Storage: According to the general terms and conditions of The Danish Technological Institute

Remarks: None

Conditions: The test has been performed according to the conditions laid down by DANAK (The Danish Accreditation), cf. www.danak.dk, and the general terms and conditions of The Danish Technological Institute. The results from DTI's work in this report, i.e. analyses, assessments and instructions may only be used or reported in their entirety. The customer may not mention or refer to DTI or DTI's employees for advertising or marketing purposes unless the DTI has granted its written consent in each case

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Test

Exposure to UV-Light

Test methods

- ASTM G 154-16 Standard practice for Operating Fluorescent Ultraviolet (UV) Lamp Apparatus for exposure of non-metallic Materials
- ISO 18314-1, 2015 Analytical colometry – Part 1: Practical colour measurement

Sample

Fade Acoustical Plaster – PLUS+

Equipment

- UV exposure: QUV – Accelerated Weathering Tester
- Colour measurement: Minolta Spectrophotometer CM-700d Geometry: d/8; Light source: D₆₅; CIELab. Viewing angle: 2°

Test results

Colour difference

	L*(D65)	a*(D65)	b*(D65)	Colour difference, ΔE^*_{ab}
0h	92.45	-0.54	3.16	
	92.67	-0.56	3.21	
	92.69	-0.59	3.34	
Mean	92.60	-0.56	3.24	
505 h	92.68	-0.57	3.13	
	92.61	-0.54	3.09	
	92.47	-0.57	3.18	
Mean	92.59	-0.56	3.13	0.10
753 h	92.59	-0.53	3.05	
	92.74	-0.55	3.06	
	92.69	-0.54	3.11	
Mean	92.67	-0.54	3.07	0.18
1000 h	92.68	-0.52	3.09	
	92.59	-0.51	3.15	
	92.72	-0.52	3.13	
Mean	92.66	-0.52	3.12	0.14