

04. April 2011



quick-mix Gruppe, Forschung + Entwicklung

Report of Brandschacht tests according to DIN 4102-1

Test-Nr.	01.52.5104.09	Date: 16 th Aug. 2009
Applicant	H. Brunner GmbH, Am Risisee 13, D – 77855 Achern	
Material tested	Aluminium, coated with clear lacquer	
Material name	Image Perfect™2800-100 Cast Gloss	

Material data

Test thickness	mm	Climatised storage	yes
weight per square meter	g/m ²	Preliminary end of test	no
density	kg/m ³		

Remarks:

Sample		A	B	C	D
First flaming*)	min, sec	1:30			
Max. flame height	cm	60			
Point of time *)	min, sec	3:00			
First melting *)	min, sec	-			
Flames on reverse side of test unit *)	min, sec	-			
Influence on burner flame *)	min, sec	-			
Components drip down *)	min, sec	-			
Extent		-			
Continuation of burning on the perforated bottom **)	min, sec	-			
Max. effluent temperature	°C	119			
Appeared after *)	min, sec	10:00			
Effluent temperature after 10 min.	°C	105			
Smoke density		low			
Afterglowing **)	min, sec	-			
Residual lengths	Specimen 1	cm	46		
	Specimen 2	cm	48		
	Specimen 3	cm	50		
	Specimen 4	cm	51		
Mean value of each single test	cm	48,75			

Remarks: 0:35 change of colours in the area of the flames and blistering, 1:30 ignition of surface, head of the flames to 40 cm, 2:40 split of the coating, 6:20 reduction of the flames to 50 cm, effluent temperature 119°C, 7:15 end of flame appearance

This test is an exploratory analysis and not a confirmation of building material class according to DIN 4102-1. The material has passed the Brandschacht test to DIN 4102-B1 in the above mentioned test arrangement. According to the application further Brandschacht tests and a B 2-test are required.

ppa. Dr. M. Kanig

i.V. U. Kielhorn

*) Time referred to the beginning of the test

**) Time period

	Requirements		
	A 1	A 2	B 1
Brandschacht			
- Residual length			
a) Mean value of each test	≥ 35 cm	≥ 35 cm	≥ 15 cm
b) each single value	> 20 cm	> 20 cm	> 0 cm
- Rauchgastemperatur	≤ 125 °C	≤ 125 °C	≤ 200 °C
- Entflammung auf der Probenrückseite	nein	nein	zulässig
- Brandparallelerscheinungen weitere Nachweise	kein Anlass zu Bedenken		
	750°C Ofen, Rauchdichte, Toxizität, ggf. Heizwert	B2-Brennkasten	

