Test report no.: **119769/16-I**

Customer:
KOMPEN
PVC YAPI VE INSAAT MALZEMELERI
San. ve Tic. A.S.
Istanbul yolu 45. km Ladik mevkii P.K.7
42435 SARAYÖNÜ / KONYA
TURKEY

Order: Testing of the fire behaviour according to Technical Annex "Section I" to RAL-GZ 716, issue December 2013 including classification according to DIN EN 13501-1: 2010-01 on window profiles made of PVC-U

Email of: 2016-05-31 **Ref:** Mr. Oguz Oguz

Test samples received: 2016-04-12

Ref. no.: ---

Test period: 2016-05-03 to 2016-05-04

This test report comprises 5 pages.

Würzburg, 2016-06-01
Rs/km

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1. Order

By its email dated 31 May 2016 company KOMPEN, PVC YAPI VE INSAAT MALZEMELERI, San. ve Tic. A.S., Istanbul yolu 45. km Ladik mevkii P.K.7, 42435 SARAYÖNÜ / KONYA, TURKEY instructed SKZ - Testing GmbH to test the fire behaviour according to Technical Annex "Section I" to RAL-GZ 716, issue December 2013 including classification according to DIN EN 13501-1: 2010-01 on window profiles made of PVC-U.

2. Test material

On 12 April 2016 SKZ - Testing GmbH received following test material:

Approx. 4 x 1 m window profile sections made of PVC-U

Profile manufacturer:	KOMPEN, SARAYÖNÜ / KONYA, TURKEY
Designation of profile	KOM 603
Colour of profile:	white
Marking:	KOMPEN KOM 603 T GTS5358 EN 12608 SIIA 25012016 14 27 H9

3. Test procedure

Testing of the fire behaviour was performed according to Technical Annex "Section I" to RAL-GZ 716, issue December 2013, item 4-2.2.15. Procedure of testing the fire behaviour was carried out according to DIN EN ISO 11925-2: 2011-02 and DIN 4102-1: 1998-05, respectively, using the surface ignition method.

Unless otherwise noted all tests were carried out at standard atmosphere 23/50, class 1 according to DIN EN ISO 291: 2008-08. Profile sections were stored at conditioning atmosphere (23 ± 5) °C until testing.

Usually we carry out tests according to standards for which we have an accreditation. The list of all standards for which we are accredited is shown on the homepage at www.skz.de.

3.1 Fire behaviour

Specimen

At least 6 profile sections at least 250 mm long must be used. These must be marked on both visible surfaces with marks at 40 mm and 190 mm from one end of the specimen and stored for 24 h at room temperature, (23 ± 5) °C, before the test is started.

Performance

The specimen must be mounted in a vertical position in the combustion box by means of the specimen holder and tripod.

The air speed in the flue of the combustion box must be (0.7 ± 1.0) m/s.

The burner, inclined at 45° and away from the specimen, is connected to the gas supply and the burner flame is set to a height of (20 ± 1) mm using the template. A tray lined with filter paper must be placed below the specimen.

The burner is then pushed steadily against the surface of the specimen so that the tip of the flame reaches the lower marking on the sample.

Measurement of the time must commence when the flame touches the surface of the specimen.

The flame must be left in this position for 15 sec and then pulled back or extinguished.

If the specimen ignites, the development of the flame must be observed for up to 20 sec after the start of ignition and the height of the flame recorded.

4. Test results

4.1 Fire behaviour

Sample no.	Height of the flame tip after 15 sec	Height of the flame tip after 20 sec	Time when the flame tip reached the upper measuring mark (h = 150 mm)	Burning drops fell		Ignition of sample		Filter paper ignited	
	mm	mm	sec	Yes	No	Yes	No	Yes	No
1	40	-	-		x		x		x
2	40	-	-		x		x		x
3	40	-	-		x		x		x
4	45	-	-		x		x		x
5	40	-	-		x		x		x
6	45	-	-		x		x		x

5. Assessment of test results

The requirements of quality assurance guideline Technical Annex "Section I" to RAL-GZ 716, issue December 2013, concerning testing of the fire behaviour including classification according to DIN EN 13501-1: 2010-01 on window profiles made of PVC-U are met.

The (Euro-) classification E according to DIN EN 13501-1: 2010-01 was proved.