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## Initial Type-Testing Report for EC Declaration of Conformity for Garage Door

SP Swedish National Testing and Research Institute has as Notified Body no. 0402, performed Initial type-testing of the products mentioned below, and our report may be used as support for an EC Declaration of Conformity according to the requirements in the harmonized standard EN 13241-1:2003.

### Issued for Manufacturer/Factory

ThyssenKrupp Bausysteme GmbH, Hammerstr. 11, 57223 Kreuztal, Germany

### Product name and description

Sectional overhead Garage Door Type	ThyssenKrupp
Day-light, width and height	Width 5000 mm, height 3000 mm (within a maximum area of 11 m <sup>2</sup> ) Full vision panels max. width 3500 mm
Type of panels	ThyssenKrupp Hoesch
Weight of doors	Max 162 kg
Hardware	DOCO LF 70 DOCO LF 220
Machinery / Operator	Sommer, Marantec (see chapter 3)
Balancing system 162 kg	Torsion springs
Spring break device	DOCO type SBD RESI 25649-50/67
Cable break device	DOCO type SBB RESI
Bottom rubber seal	DOCO 80042



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#### SP Swedish National Testing and Research Institute

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**1 Test of fully assembled Door**

**1.1 Wind Load**

Door panel type	Wind load class	Maximum pressure [Pa]	Test Report
ThyssenKrupp Hoesch Stucco	4	-	TÜV 05/YTT325014n
ThyssenKrupp Hoesch Stucco with 2 windows type 85102	4	-	TÜV 05/YTT325014n
ThyssenKrupp Hoesch Stucco with full vision	3	-	TÜV 05/YTT325014n

**1.2 Determination of air permeability**

Door panel type	Air permeability class	Test Report
ThyssenKrupp Hoesch Stucco	3	TÜV 05/YTT325014l
ThyssenKrupp Hoesch Stucco with 2 windows type 85102	2	TÜV 05/YTT325014l
ThyssenKrupp Hoesch Stucco with Full vision	4	TÜV 05/YTT325014l

**1.3 Resistance to water penetration**

Door panel type	Water penetration class	Maximum pressure [Pa]	Test Report
ThyssenKrupp Hoesch Stucco	3	100	TÜV 05/YTT325014m
ThyssenKrupp Hoesch Stucco with 2 windows type 85102	3	100	TÜV 05/YTT325014m
ThyssenKrupp Hoesch Stucco with Full vision	3	100	TÜV 05/YTT325014m

**1.4 Thermal resistance**

Test report SP No. P504117-2A and B, dated Aug 26, 2005

Door panel type	Thermal transmittance, W/(m <sup>2</sup> K)					
	p	pw	pd	pwd	g	gd
ThyssenKrupp Hoesch Stucco	1.6	1.7	-	-	-	-
ThyssenKrupp Hoesch Stucco Full vision	-	2.3	-	-	-	-

p = door with covered panels only  
 pw = covered panels with windows  
 pd = covered panels with a pass door

pwd = covered panels with windows and a pass door  
 g = fully glazed door  
 gd = glazed door with a pass door



**1.5 Operating forces, Safe opening, Dangerous substances and Durability of water tightness, thermal resistance and air permeability**

Product	Requirement	Result	Test Report
Residential Door	Operating forces *	Pass	TÜV 05/YTT331086 a and b
	Safe opening (Door weight 162 kg)	Pass	TÜV 04/YTT551372 and TÜV 05/YTT331086 a and b
	Dangerous substances	Pass	SP No. P 504117-1A
	Durability of water tightness, thermal resistance and air permeability	Pass	TÜV 05/YTT331088

\* See different operators, chapter 3 in this report.

**2. Single panel test, resistance to wind load**

Test report TÜV 05/YTT331089, dated Nov 30, 2005

Door panel type	Width [mm]	Height [mm]	Wind load		Maximum pressure [Pa]
			class	[Pa]	
ThyssenKrupp Hoesch	5000	610	4	-	1375

**3. Operating forces**

The operator was tested together with test doors using “LH 70 rear balancing springs”, “LH 220 front balancing springs” and bottom seal rubber type DOCO 80042.

The operator performed in accordance with the requirements, test report TÜV 05/YTT331086 a and b, dated Nov 11, 2005.

**3.1 Sommer and Marantec operators**

Machinery	Door weight (kg)
Aperto 868 L	162
Aperto 868 LX	162
Duo 500 S	97
Duo 800 SL	162
Comfort 220	162
Comfort 250	162
Comfort 252	162

**SP Swedish National Testing and Research Institute  
 Certification**

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