REPORT

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Initial Type-Testing Report for EC Declaration of Conformity for Industrial 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

Industrial Door Type	ThyssenKrupp
Day-light, width and height	Width 7500 mm, height 9800 mm (within a maximum area of 36 m^2) Full vision panels max. width 3500 mm
Type of panels	ThyssenKrupp Hoesch
Weight of doors	Max 600 kg
Hardware	DOCO SL / HL / VL
Machinery / Operator	Gfa Electromat
Balancing system 600 kg	Torsion springs
Spring break device 600 kg Cable break device 600 kg Cable break device 450 kg	DOCO type 25 449, 210 Nm DOCO type SBB 2'' DOCO type SBB 2'' V2I
Safety edge	See chapter 3 of this report

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1 Test of fully assembled Door

1. 1 Wind Load

Door panel type Width 3500 mm	Wind load class	Maximum pressure [Pa]	Test Report
ThyssenKrupp Hoesch	3	-	TÜV 05/YTT325014q
ThyssenKrupp Hoesch with 3 windows type 85102	3	-	TÜV 05/YTT325014q
ThyssenKrupp Hoesch full vision	3	-	TÜV 05/YTT325014q

1.2 Determination of air permeability

Door panel type	Air permeability class	Test Report
ThyssenKrupp Hoesch	4	TÜV 05/YTT325014o
ThyssenKrupp Hoesch with 3 windows type 85102	3	TÜV 05/YTT325014o
ThyssenKrupp Hoesch full vision	3	TÜV 05/YTT325014o

1. 3 Resistance to water penetration

Door panel type	Water penetration class	Maximum pressure [Pa]	Test Report
ThyssenKrupp Hoesch	3	100	TÜV 05/YTT325014p
ThyssenKrupp Hoesch with 3 windows type 85102	3	100	TÜV 05/YTT325014p
ThyssenKrupp Hoesch full vision	2	-	TÜV 05/YTT325014p

1.4 Thermal resistance

Test report SP No. P504117-2 A and B, dated Oct 10 and Nov 01, 2005

Door panel type	Thermal transmittance, W/(m²K)					
	p	pw	pd	pwd	g	gd
ThyssenKrupp Hoesch	1.5	-	-	-	-	-
ThyssenKrupp Hoesch with 3 windows type 85102	-	1.5	-	-	-	-
ThyssenKrupp Hoesch full vision	-	-	-	-	2.1	-

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

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

Product	Requirement	Result	Test Report
Industrial Door	Operating forces *	**Pass**	TÜV 05/YTT552135b dated Dec 09, 2005
	Safe opening *(Door weight 450 and 600 kg)*	**Pass**	TÜV 05/YTT552135c dated Dec 09, 2005
	Dangerous substances	**Pass**	SP No. P504117-1B, dated Dec 15, 2005
	Durability of water tightness, thermal resistance and air permeability	**Pass**	TÜV 05/YTT552135d dated Dec 15, 2005

* 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 class	Wind load [Pa]	Maximum pressure [Pa]
ThyssenKrupp Hoesch	7500	610	3	-	965

3. Operating forces

The operator was tested together with the test door using DOCO SL track system, different control units and bottom seal rubbers. The configurations are shown in the following table. The weight of the test door was 660 kg.

The operator performed in accordance with the requirements, test report TÜV 05/YTT552135b date Dec 09, 2005 and approval No. 2674/04 date Nov 16 2004.

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3.1 Gfa Electromat operator

Machinery	Control unit/ Sensor	Bottom seal rubber	Speed [mm/s]
Gfa SE 9.24	TS 961/970/980	Gelbau 3100.0210	290
Gfa SE 9.24	TS 961/970/980	Gelbau 3100.0310	290
Gfa SE 9.24	TS 961/970/980	Gelbau 3100.0804	150
Gfa SE 9.24	TS 961/970/980	Fraba OSE – P-20 40 00	150
Gfa SE 9.24	TS 961/970/980	Fraba OSE – P-25 75 00	150
Gfa SE 9.24	TS 961/970/980	Fraba OSE – P-25 75 01	290
Gfa SE 9.24	TS 961/970/980	DOCO 80045	290
Gfa SE 9.24	TS 961/970/980	Fraba OSE – P-25 90 00	290
Gfa SE 14.21	TS 961/970/980	Gelbau 3100.0210	250
Gfa SE 14.21	TS 961/970/980	Gelbau 3100.0310	250
Gfa SE 14.21	TS 961/970/980	Gelbau 3100.0804	120
Gfa SE 14.21	TS 961/970/980	Fraba OSE – P-20 40 00	120
Gfa SE 14.21	TS 961/970/980	Fraba OSE – P-25 75 00	120
Gfa SE 14.21	TS 961/970/980	Fraba OSE – P-25 75 01	250
Gfa SE 14.21	TS 961/970/980	Fraba OSE – P-25 90 00	250
Gfa SE 14.21	TS 961/970/980	DOCO 80045	250

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