



# REPORT

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Date	Reference	Page
2010-10-12	0402-CPD-509111	1 (6)

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## Summary of Initial Type Testing Reports for EC Declaration of Conformity for Industrial door

SP Technical Research Institute of Sweden has as Notified Body no. 0402, performed Initial type-testing of the products mentioned below, according to the requirements in the harmonized standard EN 13241-1:2003. This report may be used as support for an EC Declaration of Conformity in accordance with the Construction Products Directive CPD, 89/106/EEC.

### Product name and description

Industrial Door Type	SL/HL/VL
Day-light, maximum	Width 7500 mm, height 9800 mm (within a maximum area of 36 m <sup>2</sup> ) Full vision panels max. width 3500 mm
Type of panels	APCO/Kingspan, Tekla, Bremet/Metecno Door Panel, Ryterna ThyssenKrupp Hoesch, SICOM / Breda
Weight of door	Max. 600 kg
Hardware	DOCO SL / HL / VL
Machinery / Operator	See chapter 3
Balancing system	Torsion springs
Spring break device	DOCO type 25449, 210 Nm (see chapter 1.5)
Cable break device	DOCO type 25450 and 25453, (see chapter 1.5)
Safety edge	See chapter 3

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## 1. Test of fully assembled Door

### 1.1 Wind Load

Door panel type 3500 x 3000 mm (width x height)	Wind load class	Maximum pressure [Pa]	Test Report
Tekla Stucco	3	-	TÜV 05/YTT325014ac
Bremet/Metecno Door Panel Stucco	3	-	TÜV 05/YTT325014k
Bremet/Metecno Door Panel Stucco with 4 windows type 85606	3	-	TÜV 05/YTT325014k
APCO/Kingspan Stucco	3	-	TÜV 05/YTT325014e
APCO/Kingspan Stucco with 3 windows type 85603	3	-	TÜV 05/YTT325014e
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
Ryterna Stucco	4	-	TÜV 05/YTT325014w
Ryterna Stucco with 3 windows type 85600	4	-	TÜV 05/YTT325014w
SICOM / Breda (screwed side tracks) without windows	3	-	SP P602064 C, rev 2007-03-23
SICOM /Breda (screwed side tracks) 3 windows Doco 85603, silicon sealed	3	-	SP P602064 C, rev 2007-03-23
SICOM /Breda Full vision Bottom panel: SICOM Securpan panel flush Top panels: SICOM Full vision, silicon sealed	2	-	SP P602064 D, rev 2007-03-23

### 1.2 Determination of air permeability

Door panel type 3500 x 3000 mm (width x height)	Air permeability class	Test Report
Tekla Stucco	3	TÜV 05/YTT325014aa
Bremet/Metecno Door Panel Stucco	4	TÜV 05/YTT325014i
Bremet/ Metecno Door Panel Stucco, with 4 windows type 85606	4	TÜV 05/YTT325014i
APCO/Kingspan Stucco	2	TÜV 05/YTT325014c
APCO/Kingspan Stucco with 3 windows type 85603	2	TÜV 05/YTT325014c
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
Ryterna Stucco	3	TÜV 05/YTT325014u
Ryterna Stucco with 3 windows type 85600	3	TÜV 05/YTT325014u
SICOM / Breda (screwed side tracks) without windows	3	SP P602064 C, rev 2007-03-23
SICOM /Breda (screwed side tracks) 3 windows Doco 85603, silicon sealed	3	SP P602064 C, rev 2007-03-23
SICOM /Breda Full vision Bottom panel: SICOM Securpan panel flush Top panels: SICOM Full vision, silicon sealed	2	SP P602064 D, rev 2007-03-23

**1.3 Resistance to water penetration**

Door panel type 3500 x 3000 mm (width x height)	Water penetration class	Maximum pressure [Pa]	Test Report
Tekla Stucco	3	100	TÜV 05/YTT325014ab
Bremet/Metecno Door Panel Stucco	3	100	TÜV 05/YTT325014j
Bremet/Metecno Door Panel Stucco, 4 windows type 85606	3	100	TÜV 05/YTT325014j
APCO/Kingspan Stucco	3	90	TÜV 05/YTT325014d
APCO/Kingspan Stucco with 3 windows type 85603	3	100	TÜV 05/YTT325014d
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
Ryterna Stucco	3	100	TÜV 05/YTT325014v
Ryterna Stucco, 3 windows type 85600	3	100	TÜV 05/YTT325014v
SICOM / Breda (screwed side tracks) without windows	3	90	SP P602064 C, rev 2007-03-02
SICOM /Breda (screwed side tracks) 3 windows Doco 85603, silicon sealed	3	90	SP P602064 C, rev 2007-03-02
SICOM /Breda Full vision Bottom panel: SICOM Securpan panel flush Top panels: SICOM Full vision, silicon sealed	3	190	SP P602064 D, rev 2007-03-23

**1.4 Thermal resistance**

Door panel type 3500 x 3000 mm (width x height)	Thermal transmittance, W/(m <sup>2</sup> K)					
	p	pw	pd	pwd	g	gd
Tekla Stucco	1.5	-	-	-	-	-
Bremet/ Metecno Door Panel Stucco	1.4	-	-	-	-	-
Bremet/ Metecno Door Panel Stucco, with 4 windows type 85606	-	1.6	-	-	-	-
APCO/Kingspan Stucco	1.3	-	-	-	-	-
APCO/Kingspan Stucco, 3 windows type 85603	-	1.4	-	-	-	-
ThyssenKrupp Hoesch	1.5	-	-	-	-	-
ThyssenKrupp Hoesch, 3 windows type 85102	-	1.5	-	-	-	-
ThyssenKrupp Hoesch, Full vision	-	-	-	-	2.1	-
Ryterna Stucco	1.6	-	-	-	-	-
Ryterna Stucco, with 3 windows type 85600	-	1.8	-	-	-	-
SICOM/Breda 3500x3000, without windows	1.4	-	-	-	-	-

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 (full vision)

gd = glazed door with a pass door

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

SICOM / Breda: Test report SP No. P602064 E, dated April 2, 2007

**1.5 Safe opening**

Component	Door weight	Test report
Spring break device DOCO type 25449, 210 Nm	600 kg	TÜV 05/YTT552135c dated Dec 09, 2005
Cable break device DOCO type 25450	600 kg	
Cable break device DOCO type 25453	450 kg	

**1.6 Dangerous substances**

Requirement	Result	Test Report
Dangerous substances	Pass	SP No. P504117-1B, Dec 15, 2005

**1.7 Durability of water tightness, thermal resistance and air permeability**

Requirement	Result	Test Report, dated
Durability of water tightness, thermal resistance and air permeability	Pass	TÜV 05/YTT552135d, Dec 15, 2005

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

Door panel type	Test report	Width [mm]	Height [mm]	Wind load		Maximum pressure [Pa]
				class	[Pa]	
Tekla Stucco	1)	7500	610	3	-	965
Bremet/Metecno Door Panel Stucco	1)	7500	610	3	-	965
APCO/Kingspan Stucco	1)	7160	610	3	-	965
ThyssenKrupp Hoesch	1)	7500	610	3	-	965
Ryterna Stucco	1)	7500	610	3	-	965
SICOM / Breda covered panel	2)	3500	600	4	-	1 463
SICOM / Breda covered panel	2)	3500	600	4	-	1 417
SICOM / Breda covered panel	2)	5000	600	2	-	698
SICOM / Breda covered panel	2)	5000	600	2	-	670
SICOM / Breda covered panel, rfpro	2)	6200	600	2	-	897
SICOM / Breda covered panel, rfpro	2)	6200	600	2	-	895
SICOM / Breda, Fv, 5 windows, rfpro	2)	6000	600	5	1300	1 798
SICOM / Breda, Fv, 5 windows, rfpro	2)	6000	600	5	1200	1 636
SICOM / Breda, Fv, 4 windows	2)	5000	600	3	-	1 235
SICOM / Breda, Fv, 4 windows	2)	5000	600	3	-	1 097
SICOM / Breda, Fv, 3 windows	2)	3500	600	5	1600	2 208
SICOM / Breda, Fv, 3 windows	2)	3500	600	5	1600	2 228

 Test reports: 1) TÜV 05/YTT331089 dated Nov 30, 2005  
 Fv = Full vision, rfpro = reinforced profile

2) SP No. P603952C, Oct. 31 2006

### 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 tables. The weight of the test door was 600 kg. All the operators performed in accordance with the requirements. See also chapter 1.5 Safe opening where the maximum weight is given for spring break and cable break devices.

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

Test report TÜV 05/YTT552135b dated Dec 09, 2005 and approval No. 2674/04 dated Nov 16, 2004.

Machinery /Control unit	Safety edge	Speed [mm/s] (rotation) drum diameter 209.2 mm
Marantec Dynamic XSplus	Marantec 63823 Opto 110	175 (16 rpm)
	Gelbau 3100.03101	263 (24 rpm)
MFZ STA1-11-19-KU / MFZ AS 130	MFZ P2*) / Fraba Opto	208 (19 rpm)
MFZ STA1-11-19-KU / MFZ CS 300	MFZ P4 / Fraba Opto	208 (19 rpm)
MFZ STA1-11-19-KU / MFZ CS 300	MFZ P2*) / Fraba Opto	208 (19 rpm)
MFZ STA1-13-15-KU / MFZ AS 130	MFZ P4 / Fraba Opto	164 (15 rpm)
MFZ STA1-13-15-KU / MFZ AS 210	MFZ P2*) / Fraba Opto	164 (15 rpm)
	MFZ P4 / Fraba Opto	164 (15 rpm)

Test report SP P603952B dated Oct 23, 2006.

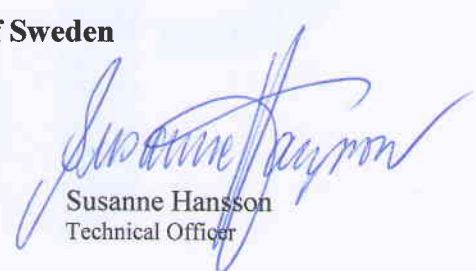
\*) For this combination DOCO 80045 is similar to MFZ P2 and also complies with the requirements.

<b>Machinery /Control unit</b>	<b>Safety edge</b>	<b>Speed [mm/s] (rotation) drum diameter 209.2 mm</b>
Ovitor EV5-22 / Ovitor V7	MFZ P2*) /Fraba Opto	241 (22 rpm)
Ovitor EV5-14 / Ovitor KV1	MFZ P2*) /Fraba Opto	153 (14 rpm)
	MFZ P4 /Fraba Opto	153 (14 rpm)
	Gelbau 016.10 3100.1610	153 (14 rpm)
Ovitor EV5-14 / Ovitor V7	MFZ P2*) /Fraba Opto	153 (14 rpm)
	MFZ P4 /Fraba Opto	153 (14 rpm)
	Gelbau 016.10 3100.1610	153 (14 rpm)
Ovitor TV5-22 / Ovitor V7	MFZ P2*) /Fraba Opto	241 (22 rpm)
Ovitor TV5 -14 / Ovitor KV1	MFZ P2*) /Fraba Opto	153 (14 rpm)
	MFZ P4 /Fraba Opto	153 (14 rpm)
	Gelbau 016.10 3100.1610	153 (14 rpm)
Ovitor TV5 -14 / Ovitor V7	MFZ P2*) /Fraba Opto	153 (14 rpm)
	MFZ P4 /Fraba Opto	153 (14 rpm)
	Gelbau 016.10 3100.1610	153 (14 rpm)
Ovitor TV5 -14 / MFZ CS 300	MFZ P4 /Fraba Opto	153 (14 rpm)
	MFZ P2*) /Fraba Opto	153 (14 rpm)

\*) For this combination DOCO 80045 is similar to MFZ P2 and also complies with the requirements.  
Test report SP P603952B dated Oct 23, 2006.

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