



Axa Plus S.R.L.
Str. Carpatilor nr. 60
Parc Industrial Metrom
500269 Brasov
Romania

Summary of Initial Type Testing Reports for EC Declaration of Conformity for Garage doors

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

Sectional overhead Garage Door	SRR70, SFR200
Day-light, tested	Width 2500 mm, height 2125 or 2500 mm
Day-light, maximum	Width 5000 mm, height 3000 mm (within a maximum area of 11 m ²) and a maximum door weight of 165 kg
Weight of door	105 – 165 kg. See also chapter 1.5 and 3.
Type of panels	APCO/Kingspan, Metecno Door Panel, Ryterna, Tekla, ThyssenKrupp Hoesch, SICOM / Breda, Epco, Technopan/Hardways, Marcegaglia, Hierros Costa
Hardware	SRR70 - Vertical track 44000 / 44010 Horizontal track 44001 / 44011, Curve kit 44012
Hardware	SFR200 - Vertical track 45000 / 45010 Horizontal track 45001 / 45011, Curve kit 45012
Machinery / Operator	See chapter 3
Balancing system, torsion springs	SRR70 rear and SFR200 front balancing springs
Spring break device	DOCO type SBD RESI 25650 and 25651, also see 1.5
Bottom rubber seal	DOCO 80042

SP Technical Research Institute of Sweden

Postal address	Phone / Fax	Reg.number	E-mail / Internet
SP Box 857 SE-501 15 Borås SWEDEN	+46 10-516 50 00 +46 33-13 55 02	556464-6874	info@sp.se www.sp.se

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1. Test of fully assembled Door

1.1 Wind Load

Door/panel type SRR70/SFR200 2500 x 2500 mm (width x height)	Wind load class	Maximum pressure [Pa]	Ref test report/s
EpcO, R-serie, covered 40 mm	5	1100	1)
Hierros Costa, covered 40 mm	5	1100	2)
Technopan/Hardways, covered 40 mm	5	1100	3)
Marcegaglia, covered 40 mm	5	1100	4)

Ref test reports SP: 1) PX00555I, 2010-03-09 2) PX00555J, 2010-03-09 3) PX00555K, 2010-03-09
4) PX00555L, 2010-03-09

Door/panel type SRR70/SFR200 2500 x 2125 mm (width x height)	Wind load class	Maximum pressure [Pa]	Ref test report/s
Tekla Stucco	4	-	1)
Metecno Door Panel Stucco	4	-	2)
Metecno Door Panel Stucco, 3 windows type 85606	4	-	2)
APCO/Kingspan Stucco	4	-	3)
APCO/Kingspan Stucco, 2 windows type 85603	4	-	3)
ThyssenKrupp Hoesch Stucco	4	-	4)
ThyssenKrupp Hoesch Stucco, 2 windows type 85102	4	-	4)
Ryterna Stucco	4	-	5)
Ryterna Stucco with 2 windows type 85600	4	-	5)
SICOM / Breda type flush	4	-	6)
SICOM / Breda type flush two windows DOCO No. 85606	5	1300	7)

Ref test reports: 1) TÜV 05/YTT325014z 2) TÜV 05/YTT325014h 3) TÜV 05/YTT325014b
4) TÜV 05/YTT325014n 5) TÜV 05/YTT325014t 6) SP P602064 A, rev 2007-03-23 7) SP P602064 B, rev 2007-03-23

1.2 Determination of air permeability

Door/panel type SRR70/SFR200 2500 x 2500 mm (width x height)	Air permeability class	Ref test report/s
EpcO, R-serie, covered 40 mm	2	1)
Hierros Costa, covered 40 mm	2	2)
Technopan/Hardways, covered 40 mm	3	3)
Marcegaglia, covered 40 mm	3	4)

Ref test reports SP: 1) PX00555I, 2010-03-09 2) PX00555J, 2010-03-09 3) PX00555K, 2010-03-09
4) PX00555L, 2010-03-09

Door/panel type SRR70/SFR200 2500 x 2125 mm (width x height)	Air permeability class	Ref test report/s
Tekla Stucco	2	1)
Metecno Door Panel Stucco	5	2)
Metecno Door Panel Stucco, 3 windows type 85606	2	2)
APCO/Kingspan Stucco	2	3)
APCO/Kingspan Stucco, 2 windows type 85603	2	3)
ThyssenKrupp Hoesch Stucco	3	4)
ThyssenKrupp Hoesch Stucco, 2 windows type 85102	2	4)
Ryterna Stucco	2	5)
Ryterna Stucco with 2 windows type 85600	2	5)
SICOM / Breda type flush	2	6)
SICOM / Breda type flush, two windows DOCO No. 85606	2	7)

Ref test reports: 1) TÜV 05/YTT325014x 2) TÜV 05/YTT325014f 3) TÜV 05/YTT325014
4) TÜV 05/YTT325014l 5) TÜV 05/YTT325014r 6) SP P602064 A, rev 2007-03-23 7) SP P602064 B, rev 2007-03-23

1.3 Resistance to water penetration

Door /panel type SRR70/SFR200 2500 x 2500 mm (width x height)	Water penetration class	Maximum pressure [Pa]	Ref test report/s
EpcO, R-serie, covered 40 mm	3	110	1)
Hierros Costa, covered 40 mm	3	110	2)
Technopan/Hardways, covered 40 mm	3	190	3)
Marcegaglia, covered 40 mm	3	170	4)

Ref test reports SP: 1) PX00555L, 2010-03-09 2) PX00555J, 2010-03-09 3) PX00555K, 2010-03-09
4) PX00555L, 2010-03-09

Door /panel type SRR70/SFR200 2500 x 2125 mm (width x height)	Water penetration class	Maximum pressure [Pa]	Ref test report/s
Tekla Stucco	3	100	1)
Metecno Door Panel Stucco	3	100	2)
Metecno Door Panel Stucco, 3 windows type 85606	3	100	2)
APCO/Kingspan Stucco	3	100	3)
APCO/Kingspan Stucco, 2 windows type 85603	3	100	3)
ThyssenKrupp-Hoesch Stucco	3	100	4)
ThyssenKrupp-Hoesch Stucco, 2 windows type 85102	3	100	4)
Ryterna Stucco	3	100	5)
Ryterna Stucco, 2 windows type 85600	3	100	5)
SICOM / Breda type flush	3	150	6)
SICOM / Breda type flush, 2 windows DOCO No. 85606	1	-	7)

Ref test reports: 1) TÜV 05/YTT325014y 2) TÜV 05/YTT325014g 3) TÜV 05/YTT325014a
4) TÜV 05/YTT325014m 5) TÜV 05/YTT325014s 6) SP P602064 A, rev 2007-03-23 7) SP P602064 B, rev 2007-03-23

1.4 Thermal resistance

Door panel type 2500 x 2125 mm (width x height)	Note	Thermal transmittance, W/(m ² K)					
		p	pw	pd	pwd	g	gd
Tekla Stucco	1)	1.6	-	-	-	-	-
Metecno Door Panel Stucco	1)	1.6	1.8	-	-	-	-
APCO/Kingspan Stucco	1)	1.4	1.6	-	-	-	-
Ryterna Stucco	1)	1.8	1.9	-	-	-	-
ThyssenKrupp Hoesch Stucco	1)	1.6	1.7	-	-	-	-
SICOM / Breda type flush	2)	1.6	-	-	-	-	-

p = door with covered panels only

pwd = covered panels with windows and a pass door

pw = covered panels with windows

g = fully glazed door (full vision)

pd = covered panels with a pass door

gd = glazed door with a pass door

Test report 1) SP No. P504117-2A and B, dated Aug 26, 2005 2) SP No. P602064 E, dated Apr 2, 2007

1.5 Safe opening

Component: Spring break device	Max. weight per spring break dev.	Test report SP No.
DOCO type SBD RESI 25650, 25651	150 kg	PX00397, 2010-02-15

1.6 Dangerous substances

Requirement	Result	Test Report SP No.
Dangerous substances	Pass	P504117-1A, 2005-12-15 P901154-02A, 2010-06-14

1.7 Durability of water tightness, thermal resistance and air permeability

Requirement	Result	Test Report
Durability of water tightness, thermal resistance and air permeability	Pass	TÜV 05/YTT331088

2. Single panel test, resistance to wind load

Door panel type	Width [mm]	Height [mm]	Wind load class	[Pa]	Maximum pressure [Pa]
Tekla Stucco	5000	610	4	-	1375
Metecno Door Panel, Stucco	5000	610	4	-	1375
APCO/Kingspan Stucco	5000	610	4	-	1375
ThyssenKrupp Hoesch	5000	610	4	-	1375
Ryterna Stucco	5000	610	4	-	1375

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

Door panel type	Width [mm]	Height [mm]	Wind load		Maximum pressure [Pa]
			class	[Pa]	
SICOM / Breda covered	3500	600	4	-	1 463
SICOM / Breda covered	3500	600	4	-	1 417
SICOM / Breda covered	5000	600	2	-	698
SICOM / Breda covered	5000	600	2	-	670

Test report SP P603952C, dated Oct. 31, 2006

3. Operating forces

All operators performed in accordance with the requirements, and the test defines the maximum door weight for each operator. Bottom seal used is DOCO 80042. See the following table and also chapter 1.5 Safe opening where the maximum weight is given for each spring break device.

Machinery	// Control unit	Max. door weight [kg]	Ref. test report
Nice SN 6041 ¹⁾		165	PX00397A, 2010-03-09 rev
Nice SN 6021 ²⁾		105	PX00397B, 2010-03-09 rev
Sommer Duo Vision 800 ³⁾		165	PX00397C, 2010-02-11
Sommer Duo Vision 650 ⁴⁾ , Duo Rapido 650		105	PX00397D, 2010-02-11
Chamberlain LM 80xx ⁵⁾		105	PX00397E, 2010-02-11
Chamberlain LM 800Axx ⁶⁾ , LM3850xx Chamberlain HE60xx ⁷⁾ , 5580xx ⁸⁾		165	PX00397F, 2010-02-11
Marantec Comfort 252.2		165	PX00397G, 2010-02-11
Marantec Comfort 220.2, 250.2		105	PX00397H, 2010-02-12
Eking KSX 550		105	PX00397I, 2010-02-12
Beninca JIM 3 // CP.J3M Beninca JIM 3 PRO // CP.J4 Beninca JIM 4 // CP.J3M		165	PX00397J, 2010-02-12
Bernal S101 – xx Bernal S401 – xxx Bernal Gamma xxx		165	PX00397K1, 2010-03-09
Docomatic xxx Docomatic xxxx DocoMat xxx		165	PX00397K2, 2010-03-09

According to the client the following machineries are similar to the tested models shown above:

¹⁾ Nice: SN 6041 /A and SPIN 40

²⁾ Nice: SPIN 20 KCE, SPIN 21 KCE, SPIN 22 KCE and SPIN 23 KCE

³⁾ Sommer: Sprint 800 SL, Sprint evolution 800, Marathon 800 SL, Marathon tiga 800SL, Marathon tiga 800 SLX, Aperto 868 LX

⁴⁾ Sommer: Duo Vision 500, Sprint 550 SL, Sprint evolution 550, Marathon 550 SL, Aperto 868 L, Aperto Baseline

⁵⁾ Chamberlain: ML700/750/850xx, GPD 70/80xx and LM60xx.

⁶⁾ Chamberlain: LM1000Axx

⁷⁾ Chamberlain: ML 500xx, JM 60xx, GPD 60xx

⁸⁾ Chamberlain: 3780xx

SP Technical Research Institute of Sweden Certification



Lennart Månsson
Certification Manager



Klas Johansson
Technical Officer