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Summary of Initial Type Testing Reports 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+A1:2011** Industrial, commercial and garage doors and gates – Product standard - Part 1: Products without fire resistance or smoke control characteristics. This report may be used as support for a Declaration of Performance in accordance with the Regulation (EU) No 305/2011 of the European parliament and of the council, CPR (Construction Products Regulation).

Product name and description

Sectional overhead Garage Door	QUIX 70, QUIX 200R, QUIX 200, QUIX 40
Day-light size, tested	Width 2500 - 6000 mm, height 2125 - 3000 mm
Day-light, maximum	QUIX 70, QUIX 200R width 6000 mm, height 3000 mm QUIX 200 width 5000 mm, height 3000 mm QUIX 40 width 5000 mm, height 2500 mm (max. door weight 100 kg)
Weight of door	100 kg – max 295 kg, depending on components/system, see chapter 1.5 and 3 (max test was 335 kg).
Type of panels	Kingspan, Metecno, Ryterna, Teckentrup, Hoesch, SICOM, Epco, Marcegaglia, Technopan, Hierros Costa, Italpanelli, Tecsedo, Niemetz
Hardware	QUIX 70 /SRR70 - Vertical track 44000 / 44010 Horizontal track 44001 / 44011, Curve kit 44012 QUIX 200R /SFR200 - Vertical track 45000 / 45010 Horizontal track 45001 / 45011, Curve kit 45012 QUIX 200 / SF200 - Vertical track 46000 / 46010 Horizontal track 46001 / 46011, Curve kit 46012 QUIX40 / EXS40 - Vertical track 48020 / 48000 Horizontal track 46026/46025, Top curve 215004
Balancing system, torsion	SRR70 rear, SFR200 front, SF200 front balancing springs, EXS40 Extension springs
Spring break device	DOCO type SBD RESI 25650 and 25651, also see 1.5
Bottom rubber seal	See chapter 3
Machinery / Operator	See chapter 3
General reports	SP P901154-04 2010-12-14 SF200, 3P07463-01A, 2013-10-25 EXS40

This report is a summary of test and assessment reports and includes also results from type tests performed by other Notified Body/ies. The content of this report may be used as support for an Declaration of Performance in accordance with the CPR. It shall be noted that the client shall specify all the involved Notified Bodies and their numbers in the Declaration of Performance.

1. Test of fully assembled Door

1.1 Wind Load

Door/panel type SRR70/SFR200/SF200/EXS40	width x height mm	Wind load		Ref test report/s
		Class	[Pa] *	
Epco, R-serie, covered 40 mm	2500 x 2500	5	1100	PX00555I, 2010-03-09
Epco R, U, fs, covered 40 mm	5000 x 3000	2	-	4P05342-10, 2014-09-19
Epco R, U, fs, covered 40 mm	6000 x 3000	2	-	4P05342-5, 2014-09-19
Hierros Costa, covered 40 mm	2500 x 2500	5	1100	PX00555J, 2010-03-09
Hoesch Stucco	2500 x 2125	4	-	TÜV 05/YTT325014n
Hoesch Stucco, 2 windows type 85102	2500 x 2125	4	-	TÜV 05/YTT325014n
Hoesh, fs, covered 39.5 mm	5000 x 3000	3	-	4P05342-9, 2014-09-19
Hoesh, fs, covered 39.5 mm	6000 x 3000	3	-	4P05342-7, 2014-09-19
Italpanelli, covered 40 mm	2500 x 2460	5	1100	PX28459L, 2013-02-13
Italpanelli, covered 40 mm	5000 x 3000	2	-	4P05342-11, 2014-09-19
Italpanelli, covered 40 mm	6000 x 3000	2	-	4P05342-4, 2014-09-19
Kingspan Stucco, 2 windows type 85603	2500 x 2125	4	-	TÜV 05/YTT325014b
Kingspan, fs, covered 40 mm	5000 x 3000	2	-	4P05342-13, 2014-09-19
Kingspan, fs, covered 40 mm	6000 x 3000	2	-	4P05342-6, 2014-09-19
Marcegaglia, covered 40 mm	2500 x 2500	5	1100	PX00555L, 2010-03-09
Metecno Stucco	2500 x 2125	4	-	TÜV 05/YTT325014h
Metecno Stucco, 3 windows type 85606	2500 x 2125	4	-	TÜV 05/YTT325014h
Niemetz, fs, covered 40 mm	5000 x 3000	2	-	4P05342-16, 2014-09-19
Niemetz, fs, covered 40 mm	6000 x 3000	3	-	4P05342-8, 2014-09-19
Ryterna Stucco	2500 x 2125	4	-	TÜV 05/YTT325014t
Ryterna Stucco, with 2 windows type 85600	2500 x 2125	4	-	TÜV 05/YTT325014t
Sicom type flush	2500 x 2125	4	-	P602064 A, rev 2007-03-23
Sicom type flush, 2 windows DOCO No. 85606	2500 x 2125	5	1300	P602064 B, rev 2007-03-23
Sicom, covered 40 mm	5000 x 3000	2	-	4P05342-12, 2014-09-19
Sicom, covered 40 mm	6000 x 3000	2	-	4P05342-3, 2014-09-19
Technopan, covered 40 mm	2500 x 2500	5	1100	PX00555K, 2010-03-09
Technopan, covered 40 mm	5000 x 3000	2	-	4P05342-15, 2014-09-19
Technopan, covered 40 mm	6000 x 3000	2	-	4P05342-1, 2014-09-19
Tecsedo, covered 40 mm	2500 x 2460	5	1200	PX28459M, 2013-02-13
Tecsedo, covered 40 mm	5000 x 3000	2	-	4P05342-14, 2014-09-19
Tecsedo, covered 40 mm	6000 x 3000	2	-	4P05342-2, 2014-09-19
Teckentrup Stucco	2500 x 2125	4	-	TÜV 05/YTT325014z

* Only stated for class 5 results.

1.2 Determination of air permeability

Door/panel type SRR70/SFR200/SF200/EXS40	width x height mm	Air permeability class	Ref test report/s
Epcø, R-serie, covered 40 mm	2500 x 2500	2	PX00555I, 2010-03-09
Hierros Costa, covered 40 mm	2500 x 2500	2	PX00555J, 2010-03-09
Hoesch Stucco	2500 x 2125	3	TÜV 05/YTT325014I
Hoesch Stucco, 2 windows type 85102	2500 x 2125	2	TÜV 05/YTT325014I
Italpanelli, covered 40 mm	2500 x 2460	3	PX28459L, 2013-02-13
Kingspan Stucco	2500 x 2125	2	TÜV 05/YTT325014
Kingspan Stucco, 2 windows type 85603	2500 x 2125	2	TÜV 05/YTT325014
Marcegaglia, covered 40 mm	2500 x 2500	3	PX00555L, 2010-03-09
Metecno Stucco	2500 x 2125	5	TÜV 05/YTT325014f
Metecno Stucco, 3 windows type 85606	2500 x 2125	2	TÜV 05/YTT325014f
Niemetz, 40 mm, covered	5000 x 3000	4	4P05343-16 2014-09-19
Niemetz, 40 mm, covered	6000 x 3000	4	4P05343-8 2014-09-19
Ryterna Stucco	2500 x 2125	2	TÜV 05/YTT325014r
Ryterna Stucco with 2 windows type 85600	2500 x 2125	2	TÜV 05/YTT325014r
Sicom type flush	2500 x 2125	2	P602064 A, rev 2007-03-23
Sicom type flush, two windows DOCO No. 85606	2500 x 2125	2	P602064 B, rev 2007-03-23
Technopan, covered 40 mm	2500 x 2500	3	PX00555K, 2010-03-09
Tecsedo, covered 40 mm	2500 x 2460	3	PX28459M, 2013-02-13
Teckentrup Stucco	2500 x 2125	2	TÜV 05/YTT325014x

1.3 Resistance to water penetration

Door /panel type SRR70/SFR200/SF200/EXS40	width x height mm	Water pene- tration class	Maximum pressure [Pa]	Ref test report/s
Epcø, R-serie, covered 40 mm	2500 x 2500	3	110	PX00555I, 2010-03-09
Hierros Costa, covered 40 mm	2500 x 2500	3	110	PX00555J, 2010-03-09
Hoesch Stucco	2500 x 2125	3	100	TÜV 05/YTT325014m
Hoesch Stucco, 2 windows type 85102	2500 x 2125	3	100	TÜV 05/YTT325014m
Italpanelli, covered 40 mm	2500 x 2460	3	90	PX28459L, 2013-02-13
Kingspan Stucco	2500 x 2125	3	100	TÜV 05/YTT325014a
Kingspan Stucco, 2 windows type 85603	2500 x 2125	3	100	TÜV 05/YTT325014a
Technopan, covered 40 mm	2500 x 2500	3	190	PX00555K, 2010-03-09
Marcegaglia, covered 40 mm	2500 x 2500	3	170	PX00555L, 2010-03-09
Metecno Stucco	2500 x 2125	3	100	TÜV 05/YTT325014g
Metecno Stucco, 3 windows type 85606	2500 x 2125	3	100	TÜV 05/YTT325014g
Niemetz, 40 mm, covered	5000 x 3000	3	130	4P05343-16 2014-09-19
Niemetz, 40 mm, covered	6000 x 3000	3	90	4P05343-8 2014-09-19
Ryterna Stucco	2500 x 2125	3	100	TÜV 05/YTT325014s
Ryterna Stucco, 2 windows type 85600	2500 x 2125	3	100	TÜV 05/YTT325014s
SICOM type flush	2500 x 2125	3	150	P602064 A, rev 2007-03-23
SICOM type flush, 2 windows DOCO No. 85606	2500 x 2125	1	-	P602064 B, rev 2007-03-23
Tecsedo, covered 40 mm	2500 x 2460	3	150	PX28459M, 2013-02-13
Teckentrup Stucco	2500 x 2125	3	100	TÜV 05/YTT325014y

1.4 Thermal resistance

Door panel type (width x height mm)	Note	Thermal transmittance, W/(m ² K)					
		p	pw	pd	pwd	g	gd
Teckentrup Stucco	(2500 x 2125) 1)	1.6	-	-	-	-	-
Metecno Stucco	(2500 x 2125) 1)	1.6	1.8	-	-	-	-
Kingspan Stucco	(2500 x 2125) 1)	1.4	1.6	-	-	-	-
Ryterna Stucco	(2500 x 2125) 1)	1.8	1.9	-	-	-	-
Hoesch Stucco	(2500 x 2125) 1)	1.6	1.7	-	-	-	-
SICOM type flush	(2500 x 2125) 2)	1.6	-	-	-	-	-
EPCO R, U residential 40 mm	(3000 x 2440) 3)	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

Note, test reports SP 1) P504117-2A and B, Aug 26, 2005 2) P602064 E, dated Apr 2, 2007 3) SP 3P03406, 2013-06-19

1.5 Safe opening

Door / component:	Result / Max. door weight	Test report SP No.
For SRR70, SFR200, SF200: DOCO Spring Break Device type SBD RESI 25650, 25651	Pass / max 150 kg per SBD	PX00397, 2010-02-15
For EXS40: wires	Pass max door weight 100 kg	3P07463-01B, 2013-10-25

1.6 Dangerous substances

Requirement	Result	Test Report SP No.
Release of 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		Maximum pressure [Pa]	Test rep.
			class	[Pa]		
Teckentrup Stucco	5000	610	4	-	1375	1
Metecno Stucco	5000	610	4	-	1375	1
Kingspan Stucco	5000	610	4	-	1375	1
Hoesch	5000	610	4	-	1375	1
Ryterna Stucco	5000	610	4	-	1375	1
SICOM covered	3500	600	4	-	1 463	2
SICOM covered	3500	600	4	-	1 417	2
SICOM covered	5000	600	2	-	698	2
SICOM covered	5000	600	2	-	670	2

Test reports: 1) TÜV 05/YTT331089, dated Nov 30, 2005 2) 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. See the following table and also chapter 1.5 Safe opening where the maximum weight is given for each spring break device if used. The bottom seals Doco 80042 and DOCO 825100 are assessed and judged as equivalent in respect of the tests of Operating forces, see evaluation report SP 4P08709B, 2015-01-23.

Machinery	// Control unit	Bottom seal DOCO	Max. door weight [kg]	Ref. test report
Nice SN 6041 ¹⁾		80042	165	PX00397A, 2010-03-09 rev
Nice SN 6021 ²⁾		80042	105	PX00397B, 2010-03-09 rev
Sommer Duo Vision 800 ³⁾		80042	165	PX00397C, 2010-02-11
Sommer duo vision 800+ ⁹⁾		825100	335	4P05343-01Rev1, 2014-11-19
Sommer Duo Vision 650 ⁴⁾ , Duo Rapido 650		80042	105	PX00397D, 2010-02-11
Sommer S 9060 pro+ ¹⁰⁾		825100	335	4P05343-01Rev1, 2014-11-19
Chamberlain LM 80xx ⁵⁾		80042	105	PX00397E, 2010-02-11
Chamberlain LM 800Axx ⁶⁾ , LM3850xx Chamberlain HE60xx ⁷⁾ , 5580xx ⁸⁾		80042	165	PX00397F, 2010-02-11
Marantec Comfort 252.2		80042	165	PX00397G, 2010-02-11
Marantec Comfort 380		80042	165	PX00397G, 2010-02-11 4P08709CRev1, 2015-03-06
Marantec Comfort 220.2, 250.2		80042	105	PX00397H, 2010-02-12
Marantec Comfort 360, 370		80042	105	PX00397H, 2010-02-12 and 4P08709CRev1, 2015-03-06
Eking KSX 550		80042	105	PX00397I, 2010-02-12
Beninca JIM 3 // CP.J3M Beninca JIM 3 PRO // CP.J4 Beninca JIM 4 // CP.J3M		80042	165	PX00397J, 2010-02-12
Bernal S101 – xx, Bernal S401 – xxx Bernal Gamma xxx		80042	165	PX00397K1, 2010-03-09
Docomatic xxx, Docomatic xxx, DocoMat xxx		80042	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 ⁹⁾ Aperto 868LX+; Sprint Evolution 800+

¹⁰⁾ Sommer S 9060 pro, S 9060 base, S 9060 base+, S 9060 tiga, S 9060 tiga+

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