



Handled by, department
Susanne Hansson
Certification+46 10 516 51 52,
susanne.hansson@sp.se

Quix Jos Poorten bvba
Waterlozeweg 24
3680 MAASEIK
Belgium

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

Quix Jos Poorten bvba, Waterlozeweg 24, 3680 MAASEIK, Belgium

Product name and description

Sectional overhead Garage Door Type	Quix
Day-light, width and height	Width 5000 mm, height 3000 mm (within a maximum area of 11 m ²) Full vision panels max. width 3500 mm
Type of panels	APCO/Kingspan, Ryterna, Tekla, Bremet, ThyssenKrupp Hoesch, SICOM / Breda
Weight of doors	See chapter 3
Hardware	DOCO LF 70, LF 220, STF/STR
Machinery / Operator	See chapter 3
Balancing system, torsion springs	LF 70 rear and LF 220 front balancing springs STR rear and STF front balancing springs
Spring break device	DOCO type SBD RESI 25649-50/67
Bottom rubber seal	DOCO 80042
Test/evaluation reports	General evaluation report for STF/STR system SP P702424, dated 2007-05-03. For specific test reports see each characteristic.

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

Swedish Notified Bodies are appointed by SWEDAC, the Swedish Board for Accreditation and Conformity Assessment, under the terms of Swedish legislation. This report may not be reproduced other than in full, except with the prior written approval by SP.

1 Test of fully assembled Door

1.1 Wind Load

Door panel type	Wind load class	Maximum pressure [Pa]	Test Report
Tekla Stucco	4	-	TÜV 05/YTT325014z
Bremet Stucco	4	-	TÜV 05/YTT325014h
Bremet Stucco with 3 windows type 85606	4	-	TÜV 05/YTT325014h
APCO/Kingspan Stucco	4	-	TÜV 05/YTT325014b
APCO/Kingspan Stucco with 2 windows type 85603	4	-	TÜV 05/YTT325014b
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
Ryterna Stucco	4	-	TÜV 05/YTT325014t
Ryterna Stucco with 2 windows type 85600	4	-	TÜV 05/YTT325014t
SICOM / Breda type flush	4	-	SP P602064 A, rev 2007-03-23
SICOM / Breda type flush Two windows DOCO No. 85606	5	1300	SP P602064 B, rev 2007-03-23

1.2 Determination of air permeability

Door panel type	Air permeability class	Test Report
Tekla Stucco	2	TÜV 05/YTT325014x
Bremet Stucco	5	TÜV 05/YTT325014f
Bremet Stucco with 3 windows type 85606	2	TÜV 05/YTT325014f
APCO/Kingspan Stucco	2	TÜV 05/YTT325014
APCO/Kingspan Stucco with 2 windows type 85603	2	TÜV 05/YTT325014
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
Ryterna Stucco	2	TÜV 05/YTT325014r
Ryterna Stucco with 2 windows type 85600	2	TÜV 05/YTT325014r
SICOM / Breda type flush	2	SP P602064 A, rev 2007-03-23
SICOM / Breda type flush Two windows DOCO No. 85606	2	SP P602064 B, rev 2007-03-23

1.3 Resistance to water penetration

Door panel type	Water penetration class	Maximum pressure [Pa]	Test Report
Tekla Stucco	3	100	TÜV 05/YTT325014y
Bremet Stucco	3	100	TÜV 05/YTT325014g
Bremet Stucco with 3 windows type 85606	3	100	TÜV 05/YTT325014g
APCO/Kingspan Stucco	3	100	TÜV 05/YTT325014a
APCO/Kingspan Stucco with 2 windows type 85603	3	100	TÜV 05/YTT325014a
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
Ryterna Stucco	3	100	TÜV 05/YTT325014s
Ryterna Stucco with 2 windows type 85600	3	100	TÜV 05/YTT325014s
SICOM / Breda type flush	3	150	SP P602064 A, rev 2007-03-23
SICOM / Breda type flush Two windows DOCO No. 85606	1	-	SP P602064 B, rev 2007-03-23

1.4 Thermal resistance

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

Test report SP No. P602064 E, dated Apr 2, 2007 (for SICOM / Breda panels)

Door panel type	Thermal transmittance, W/(m ² K)					
	p	pw	pd	pwd	g	gd
Tekla Stücco	1.6	-	-	-	-	-
Bremet Stucco	1.6	1.8	-	-	-	-
APCO/Kingspan Stucco	1.4	1.6	-	-	-	-
ThyssenKrupp Hoesch Stucco	1.6	1.7	-	-	-	-
Ryterna Stucco	1.8	1.9	-	-	-	-
ThyssenKrupp Hoesch Stucco Full vision	-	2.3	-	-	-	-
SICOM / Breda type flush	1.6	-	-	-	-	-

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

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

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]	
Tekla Stucco	5000	610	4	-	1375
Bremet 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 SP P603952C, dated Oct. 31, 2006

Door panel type	Width [mm]	Height [mm]	Wind load		Maximum pressure [Pa]
			class	[Pa]	
SICOM / Breda covered panel	3500	600	4	-	1 463
SICOM / Breda covered panel	3500	600	4	-	1 417
SICOM / Breda covered panel	5000	600	2	-	698
SICOM / Breda covered panel	5000	600	2	-	670
SICOM / Breda covered panel, with reinforced profile	6200	600	2	-	897
SICOM / Breda covered panel, with reinforced profile	6200	600	2	-	895
SICOM / Breda Full vision panel, with reinforced profile	6000	600	5	1300	1 798
SICOM / Breda Full vision panel, with reinforced profile	6000	600	5	1200	1 636
SICOM / Breda Full vision panel	5000	600	3	-	1 235
SICOM / Breda Full vision panel	5000	600	3	-	1 097
SICOM / Breda Full vision panel	3500	600	5	1600	2 208
SICOM / Breda Full vision panel	3500	600	5	1600	2 228

3. Operating forces

All operators performed in accordance with the requirements, see the following tables.

Table 3a. Test reports TÜV 05/YTT331086 a and b, dated Nov 11, 2005.

Machinery	Door weight [kg]
Sommer Aperto 868 L	162
Sommer Aperto 868 LX	162
Sommer Duo 500 S	97
Sommer Duo 800 SL	162
Marantec Comfort 220	162
Marantec Comfort 250	162
Marantec Comfort 252	162

Table 3b. Test report SP No. P603952A, dated Oct. 31, 2006

Machinery	Door weight [kg]
Beninca Ken, Control unit CP.K	110
Beninca Ken3	180
BFT EOS	180
Liftmaster LM60 (Enforca)	180
Liftmaster LM1000 (Snowball)	180
Liftmaster LM 5580 (Terminator)	180
Liftmaster ML 500 (Nessie)	180
Nice Spin 21 (SN6021) <i>Nice Spin 31</i> ¹⁾	110
Nice Spin 41 (SN6041)	180
Sommer Duo SL 650 ²⁾	180
Sommer Marathon SL 800 ³⁾	180
Sommer Marathon SL 1100	180

¹⁾ The machinery Spin 31 is similar to Spin 21 according to the manufacturer Nice.

²⁾ The machinery Duo 500SL, Duo Vision 500, Duo Vision 650, Sprint 550 SL, Aperto 868L and Marathon 550SL are similar to Duo SL 650 according to the manufacturer Sommer.

³⁾ The machinery Duo 800SL, Duo Vision 800, Sprint 800 SL and Aperto 868LX are similar to Marathon SL 800 according to the manufacturer Sommer.

4. Miscellaneous

This is a revision of the report and replaces earlier ITT report with the same number dated May 31, 2006. The following changes/additions have been done:

- STF/STR (steel) system added
- SICOM / Breda panels added on page 1 and in chapter 1 and 2.
- Machineries (Table 3 b) added in chapter 3.
- Correction on page 1: Cable break device deleted (was wrong)
- Correction chapter 1.5: ref. to reports TÜV 05/YTT331086 a and b deleted (was wrong)

SP Technical Research Institute of Sweden
Certification

Lennart Månsson
 Certification Manager


 Klas Johansson
 Technical Officer