



REPORT

issued by notified body No. 0402

Handed by: Department
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0402 – CPR – 566306

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SN Semcom Ltd Sti.
INONU MAH, OOSB NO:4
MURADIYE / MANISA
Turkey

Summary of Initial Type Testing Reports for Industrial 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

Industrial door name/type	SEMFORCE type NL, HL, VL, FTR, FLH-CE, FHL, LHR-CE
Weight of door, maximum	700 kg
Day-light, maximum	width 8500 mm; height 7000 mm
Day-light, tested	width 4000 mm; height 3500 mm width 4000 mm; height 3400 mm (for panels Italpannelli & Marcegaglia)
Panel manufacturer (type of panel)	Metecno Door Panel, Ryterna, Italpannelli, Marcegaglia, Flexi-Force (Full vision)
Hardware Flexi-Force	2" tracks, code 2V - rollers 2" code 574-60, 575-100, 584-60, 585-60 - vertical angle code 9VB, 9K, 9ZR, 9VD - side seal code 1085, 1094-40, 1084, 1088 - top seal code 1036-36, 1036, 1036-52 3" tracks, code 13155 and 13236 - rollers 3" code 579-11-198, 578-12-198 - vertical angle code 9K - side seal code 1085, 1094-40 - top seal code 1036-36, 1036, 1036-52
Machinery/ Operator	See chapter 3 in this report
Balancing system	Torsion springs
Spring break device Flexi-Force	Type 670, 670S, 675 and 675-125 (see also chapter 1.5)
Cable break device Flexi-Force	2" 440-600, 440LHR, 440REGL, 444, 440HD, 440, 440S 3" 440-3 (see also chapter 1.5)
Safety edge	See chapter 3 in this report

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1. Test of fully assembled Door

1.1 Wind Load

Door panel type	Wind load Class	Maximum pressure [Pa]	Test report
Ryterna covered t=40 mm	4	-	1
Ryterna covered t=40 mm, with pass door SafeStep	1	-	1, 10
Metecno Door Panel Monowall nfs covered	3	-	1
Metecno Door Panel Monowall nfs covered, with pass door	1	-	1, 10
Metecno Door Panel Monowall nfs, with windows	2	-	1
Metecno Door Panel Monowall nfs, with windows and pass door	0	-	1, 10
Metecno Door Panel Monowall nfs, with windows, with cylinder lock & handle/footplate 1 or handle/footplate 2	3	-	1
Italpanelli, Italdoor STD, 40 mm, nfs, cov	2	-	4
Italpanelli, Italdoor STD, 40 mm, nfs, cov with pass door	0	-	4, 10
Marcegaglia, 40 mm, non-fingersafe	3	-	9, 18
Marcegaglia, 40 mm, non-fingersafe with pass door	1	-	9, 10
Marcegaglia, 40 mm, fingersafe	3	-	17
Marcegaglia, 80 mm, non-fingersafe	4	-	19
Flexi-Force Full vision, non-fingersafe	3	-	1
Flexi-Force Full vision, non-fingersafe, with pass door	1	-	1, 10
Flexi-Force – Metecno, Full vision, fingersafe	4	-	1
Flexi-Force – Metecno, Full vision, fingersafe, with pass door SafeStep	1	-	1, 10

Test reports SP No: 1) P403429, 2005-08-26 4) P805340B, 2008-12-15 9) P908002C, 2010-03-22
 10) P908007-03B, 2010-06-02 17) 3P05443B, 2013-09-02 18) 3P05443C, 2013-09-02 19) 3P05443A, 2013-09-02
 Fv=full vision; fs=fingersafe; nfs=non-fingersafe; cov=covered

1.2 Determination of air permeability

1.2.1 Door test

Door panel type	Air permeability Class	Test report
Ryterna covered t=40 mm	3	1
Ryterna covered t=40 mm, with pass door SafeStep	1	1, 10
Metecno Door Panel Monowall nfs covered	4	1
Metecno Door Panel Monowall nfs covered, with pass door	2	1
Metecno Door Panel Monowall nfs, with windows	3	1
Metecno Door Panel Monowall nfs, with windows and pass door	1	1, 10
Metecno Door Panel Monowall nfs with windows, with cylinder lock & handle/footplate 1 or handle/footplate 2	3	1
Italpanelli, Italdoor STD, 40 mm, nfs, cov	2	4
Italpanelli, Italdoor STD, 40 mm, nfs, cov with pass door	0	4, 10
Marcegaglia, 40 mm, non finger safe	3	9
Marcegaglia, 40 mm, non finger safe with pass door	1	9, 10
Marcegaglia, 40 mm, fingersafe	3	17
Marcegaglia, 80 mm, non-fingersafe	2	19
Flexi-Force Full vision, non fingersafe	3	1
Flexi-Force Full vision, non fingersafe, with pass door	1	1, 10
Flexi-Force – Metecno, Full vision, fs	4	1
Flexi-Force – Metecno, Full vision, fs, with pass door SafeStep	1	1, 10

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 10) P908007-03B, 2010-06-02 17) 3P05443B, 2013-09-02 18) 3P05443C, 2013-09-02 19) 3P05443A, 2013-09-02
 Fv=full vision; fs=fingersafe; nfs=non-fingersafe; cov=covered



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1.2.2 Window test

FF window types tested separately. One window was tested except for window type 2230 and 2250, for which the worst case is shown in the table.

Window type, No	Note	Air leakage, m ³ /h	Window type, No	Note	Air leakage, m ³ /h
2210	1)	<0.01	2430	1)	0.02
2225	1)	<0.01	2250	1)	0.04
2230	1)	0.77	2450N	2)	0.01
2235	1)	<0.01	2460N	2)	0.11

Test reports SP: 1) P805340K, 2008-12-15 2) P908002A, 2010-02-19

1.3 Resistance to water penetration

1.3.1 Door test

Door panel type	Water penetration class	Maximum pressure [Pa]	Test report
Ryterna covered t=40 mm	3	90	1
Ryterna covered t=40 mm, with pass door SafeStep	0	-	1, 10
Metecno Door Panel Monowall nfs covered	3	70	1
Metecno Door Panel Monowall nfs covered, with pass door	0	-	1
Metecno Door Panel Monowall nfs with all windows FF No. 2400-90	0	-	1
Metecno Door Panel Monowall nfs with all windows FF No. 2400-90 with pass door	0	-	1, 10
Metecno Door Panel Monowall nfs with: window no. 2380, window no. 2390 or window no. 2400-90 window no. 2445 or window no. 2397 cylinder lock no. 637 handle/footplate no. 640T handle/footplate no. 642BL	0 0 0 0 3	- - - - 70	1
Metecno Door Panel Monowall nfs with: window no. 2400-90 window no. 2397 or cylinder lock no. 637 handle/footplate no. 640T	2 0 3	- - 70	1
Italpannelli, Italdoor STD, 40 mm, nfs, cov	3	70	4
Italpannelli, Italdoor STD, 40 mm, nfs, cov with pass door	0	-	4, 10
Marcegaglia, 40 mm, non finger safe	0	-	9
Marcegaglia, 40 mm, non finger safe with pass door	0	-	9, 10
Marcegaglia, 40 mm, fingersafe	3	70	18
Marcegaglia, 80 mm, non-fingersafe	3	150	20
Flexi-Force, Full vision, non fingersafe	3	-	1
Flexi-Force, Full vision, non fingersafe, with pass door	0	-	1, 10
Flexi-Force – Metecno, Fv, fs	3	90	1
Flexi-Force – Metecno, Fv, fs, with pass door SafeStep	0	-	1, 10

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10) P900807-03B, 2010-06-02 18) 3P05443B, 2013-09-02 19) 3P05443C, 2013-09-02 20) 3P05443A, 2013-09-02
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1.3.2 Window test

FF window types tested separately. One window was tested except for window type 2230 and 2250 where 2 windows were tested for which the lowest class is given in the table below.

Window type, No	Note	Water penetration class	Maximum pressure [Pa]
2210	1)	3	150
2225	1)	3	150
2230	1)	0	-
2250	1)	0	-
2235	1)	3	150
2430	1)	3	150
2450N	2)	3	110
2460N	2)	3	110

Test reports SP: 1) P805340K, 2008-12-15 2) P908002A, 2010-02-19

1.4 Thermal resistance

Door panel type	Note	Thermal transmittance [W/(m²K)]						
		p	pw	pd	pdS	pwd	g	gd
Metecno Door Panel, Monowall	1	0.8	0.9	0.9	-	1.0	-	-
Ryterna	1, 5	1.2	1.3	1.3	1.3	1.4	-	-
Italpannelli, Italdoor STD, 40 mm, nfs, 4000x3400 mm	2, 5	1.2	-	1.3	-	-	-	-
Italpannelli, Italdoor STD, 40 mm, nfs, 8500x7000 mm	2, 5	0.9	-	1.0	-	-	-	-
Marcegaglia, 40 mm, nfs	4, 5	1.2	-	1.3	-	-	-	-
Flexi-Force, Full vision, nfs	1	-	-	-	-	-	5.6	5.6
Flexi-Force – Metecno, Full vision, fs	1, 5	-	-	-	-	-	5.6	5.6

p = door with covered panels only

pw = covered panels with windows

pd = covered panels with a pass door

1) Test report SP No. P403429, 2005-08-26

2) P805340L, rev2 2013-06-06

4) P908002U, 2010-04-06

pwd = covered panels with windows and a pass door

g = fully glazed door (full vision); gd = glazed door with a pass door

pdS = covered and with pass door SafeStep

NPD = No Performance Determined

Fv = Full vision; fs=fingersafe; nfs=non-fingersafe; cov=covered

5) P900807-03B, 2010-06-02

1.5 Safe opening

Component (Flexi-Force types)	Door weight	Test report SP No, date
Spring break devices		
type 670, 675 and 675-125	225 kg/ SBD	P403429, 2005-08-26
type 670S	105 kg	P900807-03B, 2010-06-02
Cable break devices		
2" type: 444	400 kg	P602685B, 2006-06-21
2" type: 440-600, 440LHR, 440REGL	750 kg	P403429, 2005-08-26
2" type: 440, 440S	750 kg	P900807-03B, 2010-06-02
2" type: 440HD	960 kg	P403429, 2005-08-26
3" type: 440-3	750 kg	P403429, 2005-08-26



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1.6 Dangerous substances

Requirement	Result	Test Report, dated
Dangerous substances	Pass	SP No. P403429, 2005-08-26 SP No. P900807-02B, 2009-06-26 SP No. P905811-03B, 2009-09-23

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	TNO 2005-BCS-R0014, Jan 11, 2005 (TNO Built Environment and Geosciences, The Netherlands)

2. Single panel test, resistance to wind load

2.1 Flexi-Force

Door panel type Flexi-Force full vision (SP No. P403429, 2005-08-26)	Width [mm]	Height [mm]	Wind load Class [Pa]		Maximum pressure [Pa]
40 mm					
Full vision, 4 large windows	4000	610	4	-	1107
Full vision, 4 large windows	4500	610	3	-	1022
Full vision, 6 large windows	6000	610	2	-	765
Full vision, 8 large windows, reinforcement profile	8500	610	0	-	390

2.2 Metecno Door Panel

Door panel type Metecno Door Panel 40 mm	Width [mm]	Height [mm]	Wind load Class [Pa]		Maximum pressure [Pa]
Monowall (SP No. P403429, 2005-08-26)					
non-fingersafe	4000	610	5	1075	1477
non-fingersafe, 4 windows	4000	610	2	-	842
non-fingersafe, 6 windows	6000	610	2	-	630
non-fingersafe, 6 windows	6000	610	0	-	314
non-fingersafe, reinforcement profile 65S	7500	610	2	-	766
non-fingersafe, reinforcement profile 68SC	7500	610	2	-	710
non-fingersafe, reinforcement profile 110S	8500	610	3	-	976
non-fingersafe, 7 windows, reinforcement profile 65S	7500	610	1	-	536
non-fingersafe, 7 windows, reinforcement profile 68SC	7500	610	1	-	480
non-fingersafe, 8 windows, reinforcement profile 110S	8525	610	2	-	793
Secuwall (SP No. P403429 J, 2005-10-11)					
fingersafe	4000	500	5	1100	1504
fingersafe, with 4 windows	4000	500	1	-	448
fingersafe	6000	500	2	-	709
fingersafe, with 6 windows	6000	500	0	-	191
fingersafe	7500	500	1	-	448
fingersafe, reinforcement profile 113 mm	7500	500	4	-	1399
fingersafe	8500	500	0	-	345
fingersafe, reinforcement profile 113 mm	8500	500	3	-	1116

* profile type 68SC, SP PX04884-03, rev 1 2010-11-01



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2.3 Ryterna

Door panel type Ryterna 40 mm (SP No. P403429, 2005-08-26)	Width [mm]	Height [mm]	Wind load Class [Pa]		Maximum pressure [Pa]
40 mm	4000	610	5	1461	2009
4 windows	4000	610	2	-	841
40 mm	6000	610	2	-	757
6 windows	6000	610	1	-	422
reinforcement profile 65S	7500	610	2	-	882
reinforcement profile 68SC	7500	610	2	-	830
reinforcement profile 110S	8500	610	3	-	1234
7 windows, reinforcement profile 65S	7500	610	2	-	654
7 windows, reinforcement profile 68SC	7500	610	1	-	600
8 windows, reinforcement profile 110S	8525	610	3	-	1009

fs = fingersafe w=width, reinf pro= reinforcement profile * profile type 68SC, SP PX04884-03, rev 1 2010-11-01

2.4 Italpannelli

Door panel type Italpannelli STD, non-fing-safe 40 mm (SP No. P805340-02B, 2009-03-25)	Width [mm]	Height [mm]	Wind load Class [Pa]		Maximum pressure [Pa]
covered	4000	610	5	1300	1797
covered	6000	610	2	-	606
65S	7500	610	2	-	757
68SC	7500	610	2	-	700
110S	8500	610	4	-	1160

* profile type 68SC, SP PX04884-03, rev 1 2010-11-01

2.5 Marcegaglia

Door panel type Marcegaglia, 40 mm fs and non fs, 80 mm non-fingersafe	Width [mm]	Height [mm]	Wind load Class [Pa]		Maximum pressure [Pa]	Ref.
40 mm panels non fingersafe						
4000 mm covered	4000	610	3	-	1215	1
6000 mm, covered, Strut FF 65S (65 mm)	6000	610	2	-	823	1
6000 mm, covered, Strut FF 68SC (65 mm)	6000	610	2	-	780	1, 2
7500 mm, covered, Strut FF 65S (65 mm)	7500	610	1	-	608	1
7500 mm, covered, Strut FF 68SC (65 mm)	7500	610	1	-	560	1, 2
8500 mm, covered, Strut FF 110S (110 mm)	8500	610	2	-	815	1
40 mm panels fingersafe						
4000 mm covered	4004	610	4	-	1417	3
6000 mm covered	6004	610	2	-	628	3
7500 mm, covered, Strut FF 65S	7505	610	2	-	680	3
8500 mm, covered, Strut FF 110S	8505	610	3	-	1047	3
80 mm panels, non fingersafe						
4000 mm, covered	4000	610	5	2057	2828	3
4000 mm, covered	6008	610	3	-	1263	3
7500 mm, covered, Strut FF 65S	7507	610	3	-	1073	3
8500 mm, covered, Strut FF 110S	8506	610	3	-	1235	3

Report number: 1) SP No. P908002-01, 2010-02-25
3) 3P05611, 2013-09-06

2) profile type 68SC, SP PX04884-03, rev 1 2010-11-01



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3. Operating forces

The operators were tested together with the test doors using Flexi-Force vertical lift track systems, different control units and safety edges. The configurations are shown in the following tables. The operators performed in accordance with the requirements according to test reports:

3.1 – 3.3 SP No. P403429, dated 2005-08-26 and for

3.x NICE-Deutschland GmbH types SDL and SWL, SP No. P805340-01-J, dated 2009-01-20

3.x Force90AC /Dalmatic Dall, SP P805340-01-I, 2009-01-23

Force60AC, report SKG 11.1116 2011-11-30; Force140AC, report SKG 11.1117 dated 2011-11-30

Force70XC/70XQ, report SKG-13.00806, 2013-10-08

Force100XC/100XQ, report SKG-13.00805, 2013-10-08

3.1 Force operators

Door weight	Machinery	Control unit // Sensor	Safety edge	Speed [mm/s]
700 kg	Force140AC	Dalmatic STD V.7E // OSE-1113926	OSE signal LP in 1039-52 rubber	~198
			OSE signal LP in 1039-55 rubber	~164
700 kg	Force140AC	Dalmatic STD V.7E // (wireless)	OSE WL kit in 1039-52 rubber	~164
			OSE WL kit in 1039-55 rubber	~138
550 kg	Force90AC 24 rpm	STD V.7E // Witt Opto sensor	Flexi-Force 1039-55	~183
			Flexi-Force 1039-52	~231
			Albany 006-207	~207
			Novoferm 1286630	~219
			Fraba 456000	~207
550 kg	Force90AC 24 rpm	STD V.7E // Dalmatic Opto sensor TSS10/RSS10	Flexi-Force 1039-52	~243
			Flexi-Force 1039-55	~183
			Albany 006-207	~207
			Fraba 456000	~207
			Novoferm 1286630	~195
550 kg	Force90AC 24 rpm	STD V.7E // Vitector Fraba Opto sensor OSE-S 1100	Novoferm 1286000	~195
			Flexi-Force 1039-52	~207
			Fraba 456000	~195
			Novoferm 1286630	~207
400 kg	Force 100XQ, 23 rpm Force 100XC, 23 rpm	FF control unit FORCE IQ // FF OSE Optosensor	Novoferm 1286000	~195
			OSE signal LP in 1039-52 rubber	~210
			Novoferm 1286630	~207
350 kg	Force 70XQ, 21rpm Force 70XC, 21rpm	FF control unit FORCE IQ // FF OSE Optosensor	Novoferm 1286000	~195
			OSE signal LP in 1039-52 rubber	~202
300 kg	Force60AC	AERF, SIMPLY1H4 // OSE-1113926	OSE signal LP in 1039-52 rubber	~245
			OSE signal LP in 1039-55 rubber	~212
	Force 100XQ, 23 rpm Force 100XC, 23 rpm	FF control unit FORCE IQ // FF OSE Optosensor	OSE signal LP in 1039-52 rubber	~221
			OSE signal LP in 1039-55 rubber	~187
			OSE signal LP in 1039-55 rubber	~187

Notes: Force90AC tested under the name Dalmatic Dall

Type Force70XC / 100 XC is identical to the Force70XQ / 100XQ, but fitted with an internal brake.



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3.2 NICE-Deutschland GmbH operators

Door weight	Machinery Note 1) and 2)	Control unit // Sensor	Safety edge	Speed [mm/s]
700 kg	MTec SD-1	MTec UST1 // Witt optosensor	Flexiforce 1039-52	~223
			Flexiforce 1039-55	~219
			MTec OSA-P1	~233
700 kg	MTec SD-2	MTec UST1 // Witt optosensor	Flexiforce 1039-52	~231
			Flexiforce 1039-55	~223
			MTec OSA-P1	~223
400 kg	Mtec SDL10024-EKU, 24 rpm	Mtec UST1KL // Flexiforce Opto sensor	Flexi-Force 1039-52	~207
			Flexi-Force 1039-55	~195
			Fraba Vitector OSE-P257500	~171
400 kg	Mtec SDL10024-EKU, 24 rpm	Mtec UST1KL // Mtec OS-SES-A	Mtec OS-A-P1	~183
			Flexi-Force 1039-55	~183
			Flexi-Force 1039-52	~207
400 kg	Mtec SDL10024-EKU, 24 rpm	Mtec UST2L // Mtec OS-SES-A	Flexi-Force 1039-52	~207
			Flexi-Force 1039-55	~183
			Mtec OS-A-P1	~207
400 kg	Mtec SDL10024-EKU, 24 rpm	Mtec UST2L // Flexiforce Opto sensor	Mtec OS-A-P1	~207
			Fraba Vitector OSE-P257500	~171
			Flexi-Force 1039-55	~183
550 kg	Mtec SDL14017-EKU, 17 rpm	Mtec UST2L // Flexiforce Opto sensor	Flexi-Force 1039-52	~207
			Fraba Vitector OSE-P257500	~171
			Flexi-Force 1039-55	~183
550 kg	Mtec SDL14017-EKU, 17 rpm	Mtec UST1KL // Flexiforce Opto sensor	Mtec OS-A-P1	~155
			Flexi-Force 1039-55	~138
			Flexi-Force 1039-52	~172
550 kg	Mtec SDL14017-EKU, 17 rpm	Mtec UST1KL // Flexiforce Opto sensor	Fraba Vitector OSE-P257500	~147
			Flexi-Force 1039-52	~172
			Mtec OS-A-P1	~155
350 kg	Mtec SWL07020, 20 rpm	Mtec UST1KL // Flexiforce Opto sensor	Mtec OS-A-P1	~203
			Flexi-Force 1039-52	~223
			Fraba Vitector OSE-P257500	~193
350 kg	Mtec SWL07020, 20 rpm	Mtec UST1KL // Mtec OS-SES-A	Flexi-Force 1039-55	~173
			Mtec OS-A-P1	~203
			Flexi-Force 1039-52	~223
350 kg	Mtec SWL07020, 20 rpm	Mtec UST2L // Mtec OS-SES-A	Fraba Vitector OSE P257500	~229
			Fraba Vitector OSE-P257500	~173
			Flexi-Force 1039-52	~223
350 kg	Mtec SWL07020, 20 rpm	Mtec UST2L // Flexiforce Opto sensor	Mtec OS-A-P1	~203
			Flexi-Force 1039-55	~173
			Flexi-Force 1039-52	~223
550 kg	Mtec SDL14617, 17 rpm	Mtec UST1KL // Mtec OS-SES-A	Fraba Vitector OSE-P257500	~173
			Flexi-Force 1039-52	~223
			Mtec OS-A-P1	~203
550 kg	Mtec SDL14617, 17 rpm	Mtec UST2L // Mtec OS-SES-A	Flexi-Force 1039-55	~173
			Fraba Vitector OSE-P257500	~173
			Flexi-Force 1039-55	~173
550 kg	Mtec SDL14617, 17 rpm	Mtec UST1KL // Mtec OS-SES-A	Mtec OS-A-P1	~223
			Fraba Vitector OSE-P257500	~173
			Flexi-Force 1039-52	~223
350 kg	Mtec SDL10024 24 rpm -- 50 Hz	Mtec UST1FU // Mtec OS-SES-A	Mtec OS-A-P1	~195
			Mtec UST1FU // FF Opto sensor	Mtec OS-A-P1
			Mtec OS-A-P1	~207
350 kg	Mtec SDL10024 19.2 rpm -- 40 Hz	Mtec UST1FU // FF Opto sensor	Mtec OS-A-P1	~195
			Mtec UST1FU // Mtec OS-SES-A	Mtec OS-A-P1
			Mtec OS-A-P1	~175

1) According to the manufacturer Mtec; MTec SD-1 is sold also under the brand name Nice TMS10024

2) According to the manufacturer Mtec; MTec SD-2 is sold also under the brand name Nice TMS14017



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3.3 Chamberlain operators

Door weight	Machinery	Control unit // Sensor	Safety edge	Speed [mm/s]
700 kg	Chamberlain DK90/22	Feig TST 2 // - Feig TST 2 // Fraba OSE	Gelbau 002.10	~320
			Flexiforce 1039-95	~322
			Fraba P259000	~289
550 kg	Chamberlain DK70/30	Feig TST 2 // Fraba OSE Feig TST 2 // -	Flexiforce 1039-52	~237
			Fraba P2575010605	~289
			Fraba P456000	~237
550 kg	Chamberlain DK90/22	Feig TST 2 // Fraba OSE Feig TST 2 // -	Flexiforce 1039-52	~185
			Flexiforce 1039-55	~185
			Fraba P2575010605	~234
			Fraba P456000	~200
200 kg	Chamberlain 3800A	Internal // Internal	Gelbau 31000804	~205
			Flexiforce Standard	~195
			Flexiforce 1039-95	~176

SP Technical Research Institute of Sweden
Certification


Lennart Aronsson
Product Certification Manager


Susanne Hansson
Technical Officer



REPORT

issued by an Accredited Testing Laboratory

Date
2009-11-11

Reference
P805340 Q



Handled by, department

Lars Andersson

Building Technology and Mechanics

+46 10 516 52 29, lars.andersson@sp.se

1 Introduction

SP has been commissioned by Gliderol to perform tests of air permeability, resistance to water penetration and wind load tests on a fully assembled door and wind load test on panels by four point bending.

Place of testing

Laboratory of SP Building and Mechanics

Test period

week 47, 2008 – week 09, 2009

2 Tested objects

Discription of Industrial door:

Product name/type of door	Italian Panel
Daylight size W x H	610mm 500mm
Type and producer of panels	Non finger safe
Panel thickness	40 mm
Tracks	FlexiForce, standard lift IND
Balancing system	Torsion springs
Drums	FlexiForce, FF –NL-12
Rollers	FlexiForce, 574-60
Hinges	FlexiForce, 450 series
Bottom sealing	FlexiForce, 1039
Side sealing	FlexiForce, 1085

Discription of residential door:

Product name/type of door	Italian Panel
Daylight size W x H	610mm 500mm
Type and producer of panels	Finger safe
Panel thickness	40 mm
Tracks	FlexiForce, RES 350
Balancing system	Torsion springs
Drums	FlexiForce, FF 4x8
Rollers	FlexiForce, 574-60
Hinges	FlexiForce, 420 series
Bottom sealing	FlexiForce, 1039
Side sealing	FlexiForce, 1085

The doors were supplied and installed by the client in the opening of an airtight chamber, with its exterior facing inwards towards the chamber.

3 Test performance

3.1 Air permeability, fully assembled door

A positive air pressure was established in the chamber and the air leakage was measured at 50 Pa.

The tests were carried out in accordance with EN 12427.

3.5 Dangerous substances

The doors were examined in accordance with the requirements of the Construction Products Directive, CPD, (89/106/EEC). The interpretative Document Essential Requirements No 3 related to the CPD identifies aspects where hygiene, health and the environment may be concerned. Technical specifications are required to define release of pollutants to indoor air, outdoor air, soil and water, taking account of the concentration of pollutants in the products.

4 Test Results

4.1 Resistance to wind load, fully assembled door

4.1.1 Industrial Door

The door panels collapsed at an inner pressure of 898 Pa. There were no visible deformations before this.

Classification according to EN 12424: **Class 2**

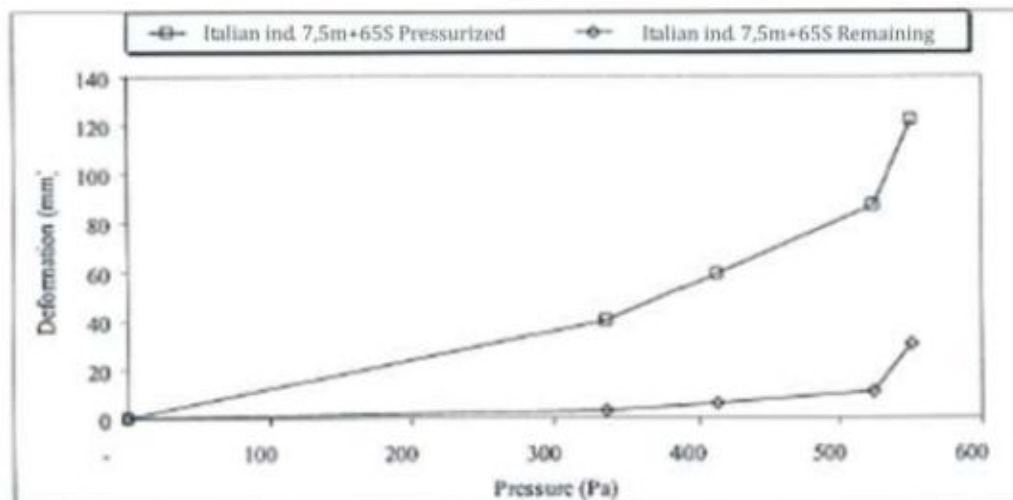


Figure 6 Wind load vs. displacement

4.6 Dangerous substances

Door components described in this report are made of material that complies with the Construction Products Directive (89/106/EEC), see appendix 26.

5 Measurement uncertainty

The total calculated measurement uncertainty is for the wind load $< 1.5\%$ and for the deformations $< 1.5\%$. Reported uncertainty corresponds to an approximate 95 % confidence interval around the measured value. The interval has been calculated in accordance with GUM (The ISO guide to the expression of uncertainty in measurements), which is normally accomplished by quadratic addition of the actual standard uncertainties and multiplication of the resulting combined standard uncertainty by the coverage factor $k=2$.

SP Technical Research Institute of Sweden
Building Technology and Mechanics - Solid Mechanics and Structures



Klas Johansson
Technical Manager



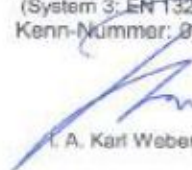
Lars Andersson
Technical Officer



Bescheinigung über eine Konformitätsprüfung

Bescheinigungs-Nr.:	TorFV 4/049
Bauaufsichtlich anerkannte Prüfstelle:	TÜV Industrie Service GmbH TÜV SÜD Gruppe Prüfstelle für das Bauprodukt (System 3: EN 13241) "Tore - Produkte ohne Feuer- und Rauchschutzeigenschaften" Westendstraße 199, 80686 München - Deutschland
Antragsteller/ Bescheinigungsinhaber:	Flexi Force Hanzeweg 19 3771 NG Barneveld - Niederlande
Hersteller:	s. o.
Produktbezeichnung:	Fangvorrichtung für Tore
Typ:	440-800, 440REGL, 440-3"
Prüflaboratorium:	TÜV Industrie Service GmbH TÜV SÜD Gruppe Prüflaboratorium für Produkte der Fördertechnik Prüfbereich Aufzüge und Sicherheitsbauteile Westendstraße 199, 80686 München - Deutschland
Datum und Nummer des Prüfberichtes:	1994-11-13 24015910
Prüfgrundlagen:	<ul style="list-style-type: none"> ➤ DIN EN 12604 / DIN EN 12605 (Ausgabe Aug. 2000) Tore, Mechanische Aspekte, Anforderungen/Prüfverfahren ➤ GS-BE-04 (Ausgabe Jan. 2001) Grundsätze für die Prüfung und Zertifizierung von Fangvorrichtungen für Fenster, Türen und Tore
Ergebnis:	Die Fangvorrichtung erfüllt für den im Prüfbericht angegebenen Einsatzbereich die Anforderungen der Prüfgrundlagen.
Hinweis:	Diese Bescheinigung behält ihre Gültigkeit solange die Fangvorrichtung wie geprüft hergestellt wird und die Anforderungen aus den Prüfgrundlagen für die Fangvorrichtung unverändert bleiben. Sie ersetzt die BG-Prüfbescheinigung Nr. 99103 von 1999-12-30 einschließlich des Kennzeichens A-BE 99103.
Ausstellungsdatum:	2005-04-28

Prüflaboratorium für Produkte der Fördertechnik
Prüfstelle für Tore - Produkte ohne Feuer- und Rauchschutzeigenschaften
(System 3: EN 13241)
Kenn-Nummer: 0036


L. A. Karl Weber





Bescheinigung über eine Konformitätsprüfung

Bescheinigungs-Nr.:	TorFV 4/048
Bauaufsichtlich anerkannte Prüfstelle:	TÜV Industrie Service GmbH TÜV SÜD Gruppe Prüfstelle für das Bauprodukt (System 3: EN 13241) "Tore - Produkte ohne Feuer- und Rauchschutzeigenschaften" Westendstraße 199, 80686 München - Deutschland
Antragsteller/ Bescheinigungsinhaber:	Flexi Force Hanzeweg 19 3771 NG Barneveld - Niederlande
Hersteller:	s. o.
Produktbezeichnung:	Fangvorrichtung für Tore
Typ:	670, 675, 675-5/4
Prüflaboratorium:	TÜV Industrie Service GmbH TÜV SÜD Gruppe Prüflaboratorium für Produkte der Fördertechnik Prüfbereich Aufzüge und Sicherheitsbauteile Westendstraße 199, 80686 München - Deutschland
Datum und Nummer des Prüfberichtes:	1994-11-23 24015910
Prüfgrundlagen:	<ul style="list-style-type: none"> ➤ DIN EN 12604 / DIN EN 12605 (Ausgabe Aug. 2000) Tore, Mechanische Aspekte, Anforderungen/Prüfverfahren ➤ GS-BE-04 (Ausgabe Jan. 2001) Grundsätze für die Prüfung und Zertifizierung von Fang- vorrichtungen für Fenster, Türen und Tore
Ergebnis:	Die Fangvorrichtung erfüllt für den im Prüfbericht angegebenen Einsatzbereich die Anforderungen der Prüfgrundlagen.
Hinweis:	Diese Bescheinigung behält ihre Gültigkeit solange die Fangvorrichtung wie geprüft hergestellt wird und die Anforderungen aus den Prüfgrundlagen für die Fangvorrichtung unverändert bleiben. Sie ersetzt die BG-Prüfbescheinigung Nr. 99104 von 1999-12-30 einschließlich des Kennzeichens A-BE 99104.
Ausstellungsdatum:	2005-04-28

Prüflaboratorium für Produkte der Fördertechnik
Prüfstelle für Tore - Produkte ohne Feuer- und Rauchschutzeigenschaften
(System 3: EN 13241)
Kenn-Nummer: 0036


T. A. Karl Weber



FLEXI-FORCE BV
 Hanzeweg 19, 1771 NG Barneveld
 Industrieterrein Harselaar Oost
 P.O. Box 37, 3770 AA Barneveld (Holland)
 Telefoon: +31 (0)342-427777 Fax: +31 (0)342-414679

Kwaliteit/kabelcertificaten/certkpp4 no5.doc

CERTIFICATE OF WIRE ROPES

1. Type

Name : Galvanized steel wire rope
 Composition : 6 x 19
(number of strands x number of wires)
 Direction and type of Lay : Right regular lay
 Number of cores : 1
 Core material : Polypropylene
 Norminal Wire Rope Diameter : 4.0 mm
 Manufactured according standard : DIN 3060 OR EN12385

2. Specification

DESCRIPTION	SPECIFICATION		
Nominal Dia.	4.0	mm	
Tensile Grade	1960	N/mm ²	
Dia of Rope	-	mm	
Breaking Strength	min	9640	N
Length of Lay	-	mm	
Stretch Limit in 24"	max	-	%
Surface finish	Zinc coated		

Zertifikat

Certificate



TÜV NORD CERT

Registrier-Nr.

Registration no.

78/780/551029

Zeichen des Auftraggebers
Customer's reference

T. Peterse

Auftragsdatum
Date of application

07.11.2003

Aktenzeichen
File reference

8000551029

Prüfbericht Nr.
Test report no.

04YTT551029

**Name und Anschrift
des Auftraggebers**

**Flexi Force BV
Hanzeweg 19**

Customer's name
and address

NI - 3771 NG Barneveld

Ist berechtigt, das unten
genannte Produkt mit dem
abgebildeten Zeichen
zu kennzeichnen



is authorized to
provide the product
mentioned below with
the mark as illustrated

Fertigungstätte

- Flexi Force BV, Hanzeweg 19, NI - 3771 NG Barneveld -

Manufacturing plant

Geprüft nach

EN 12504: 2000 Tore - Mechanische Aspekte (Anforderungen)
EN 12003: 2000 Tore - Mechanische Aspekte (Prüfverfahren)
EN 12453: 2000 Nutzungssicherheit kraftbetätigter Tore (Anforderungen)
EN 12445: 2000 Nutzungssicherheit kraftbetätigter Tore (Prüfverfahren)

Tested in accordance with

**Beschreibung des
Produktes**

**Beschlagsätze (IND-BS) zum Aufbau von hand- oder
kraftbetätigten Industriesektionaltoren**

Description of product

Ausführungen:

BS NL - Normal Umlenkung
BS HL - Hoch Hub
BS VL - Vertikal Hub
BS FTR - Normal Umlenkung mit Dachfolge
BS FHL - Hoch Hub mit Dachfolge

Antriebseinheiten (optional):

IND-E-111, IND-E-121, IND-E-1FU, IND-E-311,
IND-E-312, IND-E-321 und IND-E-322

Paneelen Hersteller:

Teckentrup / Bremet / Thyssen-Hoesch

Bitte beachten Sie auch die umseitigen Hinweise
Please also pay attention to the hints stated overleaf

TÜV NORD CERT GmbH & Co. KG

Gültig bis 02.2006

Valid to

Der Leiter
The head

Hannover, den 11.02.2004

Hannover, dated

I. V. K. H. Schwedt

Am TÜV 1 • 30619 Hannover • Fon +49 (0)511 986 1470 • Fax +49 (0)511 986 1590

TUVNORD 44 01.01.01 01000 1.0



EUROTECH CERTIFICATION

Conformity Certificate

No. 3125 CD 004/EU

Confirms that the product

Transparent Shutter, Industrial Sectional Door, Sectional Garage Door

manufactured by the company:

S.N. SEMCOM ELEKTRONIK MUH. SAN. VE TIC. LTD. STI.

Inonu Mah. Orta Olceklil Sanayi Bolgesi, 24.Sk. No:4 45206 Muradiye-MANISA, TURKEY

Complies to the applicable essential requirements of the Directive 89/106/EEC on construction products as amended that have been implemented into the following harmonized European Standard and directive:

89/106/EEC - Construction Products Directive

Taking into account the intended use, the EUROTECH Product Certification body has conducted, with successful results, the type-examination of the certified product according to relevant parts of the above mentioned Directives and European standards.

The product description, technical documentation, assessment procedures and evaluation of the examination are conforms with the standard and directive requirements.

This Certificate is issued under the following conditions:

1. *This certificate is Declaration of Conformity issued by Authorized Representative, it is not NB Certificate.*
2. *It applies only to the above referenced models of the product. It does not imply that the Certification Body has performed any surveillance or control of their manufacture.*
3. *The manufacturer shall assure that all products of the respective models conform to the certified type.*
4. *The Certificate remains valid until the manufacturing conditions, the harmonized standards or relevant legislation are changed but until the date of expiration at the latest.*
5. *After fulfilling the relevant EU legislation requirements (CD compliance), the manufacturer shall affix to each Product, of the above referenced models, the CE marking according to this example:*

CE

Date of issue: November 30, 2011

Date of expiration: November 29, 2015

Authorized Representative of the Product Certification Body



Herriotstraße 1 60528 Frankfurt am Main / Germany
www.eurotechcertification.com, email: info@eurotechcertification.com

TÜRK STANDARDLARI ENSTİTÜSÜ



HİZMET YETERLİLİK BELGESİ

Belge No	:45-HYB-577
İlk Veriliş Tarihi	:17.06.2014
Son Geçerlilik Tarihi	:17.06.2015
Firmanın Adı	:S.N. SEMCOM ELEKTRONİK MÜHENDİSLİK SANAYİ VE TİCARET LİMİTED ŞİRKETİ
Firmanın Adresi	:İNÖNÜ MAH. ORTA ÖLÇEKLİ SANAYİ BÖLGESİ 24.SOK. NO:4 MURADIYE / MANİSA-MANİSA/TÜRKİYE
Hizmet Yeri Adresi	:İNÖNÜ MAH. ORTA ÖLÇEKLİ SANAYİ BÖLGESİ 24.SOK. NO:4 MURADIYE / MANİSA MANİSA/TÜRKİYE
Sicil No	:13280

Verilen Hizmetin Kapsamı

1. ZİYETKİLİ SERVISLER-OTOMATİK VEYA MANUEL KAPI SİSTEMLERİNE (DAİRESEL, YANA KAYAR, KATLANABİLİR, PANJUR VB.) HİZMET YETERLİLİK BELGESİ VERİLMESİNE ESAS KRİTERLER STANDARDINA UYGUN HİZMET VEREN
 * S.N. SEMCOM ELEKTRONİK MÜHENDİSLİK SANAYİ VE TİCARET LİMİTED ŞİRKETİ YETKİLİ SERVİSİ (1416425) (16.06.2014) (TRANSPAFORZA) (SEMFORCE .) MARKALI



Türk Standardları Enstitüsü Hizmet Belgelendirme Yönergesine göre yapılan inceleme neticesinde; firma işyerinin, kapsamında belirtilen hizmetler için yeterli olduğu tespit edilerek bu belge verilmiştir.

17.06.2014

M. KAYAN
 MUHARREM KAYAN

TSE MANİSA TEMSİLCİSİ V.



Organize Sanayi Bölgesi 1. Koşum Sektörü Cad. No:5 MANİSA Telefon: 0-238-233 16 11 Sanitrol: 0-238-233 70 23/233 70 24 Faks: 0-238-233 70 25

Bu belge hiçbir surette tefhül edilemez, kiranen vüya okunmasını zorlaştıracak şekilde çoğaltılamaz, ıflet ve silinil yapılamaz. Sayfa : 1 / 1

UNICERT



KALİTE YÖNETİM SİSTEMİ SERTİFİKASI

Universal GmbH
Certification Services

Bu sertifika,

S.N. SEMCOM ELEKTRONİK MÜH. SAN. VE TİC. LTD. ŞTİ.

İnönü Mah. Orta Ölçekli Sanayi Bölgesi 24. Sk. No:4 Muradiye/MANİSA/TÜRKİYE

kuruluşunun,

**POLİKARBON TÜREVLİ ŞEFFAF KEPENK, ALÜMİNYUM VE PLASTİK GÖVDELİ
SUNDURMA GÖLGELİK, ALÜMİNYUM VERANDA, MODÜLER GARAJ SİSTEMLERİ,
SEKSİYONEL ENDÜSTRİYEL KAPI VE SEKSİYONEL GARAJ KAPILARI ÜRETİMİ**

kapsamında, SA1.002517 sayılı rapordaki inceleme ile

DIN EN ISO 9001:2008

standartının şartlarına uyan bir kalite yönetim sistemi
kurduğunu ve uyguladığını onaylamak üzere verilmiştir.

Sertifika No : QMS 0911 002440

Yayın Tarihi : 2014-09-30

Geçerlilik Tarihi : 2016-09-29

Belge Periyodu : 3 yıl (2.yıl)



Deutsche
Akkreditierungsstelle
D-ZM-16058-01-00

Universal GmbH

The authenticity of this certificate can be confirmed online or by e-mail to the Head Office via
Universal GmbH, Hugo-Eckener-Strasse 29, 50829 Köln Germany T: + 49 221 16 999 194 www.uni-cert.de info@uni-cert.de