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SN Semcom Ltd Sti.  
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MURADIYE / MANISA  
Turkey

## 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

Garage door name/type	SEMFORCE / residential sectional overhead door	
Max. weight of door	Depending on spring break device (maximum of 3 springs) or operator, limitation see chapter 1.5 and 3 (Eval. report PX20720-03D, 2013-02-24)	
Day-light, maximum	width 5000; height 3000 mm	
Day-light, tested	width 2500; height 2610 mm	
Panel manufacturer	Metecno Door Panel, Flexi-Force (Full vision)	
Hardware Flexi-Force	Type	Report SP
	RES-X, RES 70, RES 200	P403076, 2005-02-07
	RES 350	P704194, 2007-09-18
	RS 70, RS 200 - vertical RSV, horizontal RS200H, RS70H	P805340M, 2009-06-26
	RSC - vertical RSCV, horizontal RSCH	PX20720-02C, 2012-06-26
Balancing system	Flexi-Force Torsion spring	
Spring break device	See chapter 1.5	
Machinery / Operator	See chapter 3	
Bottom seal	See chapter 3	

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## 1. Test of fully assembled Door

### 1.1 Wind Load

Door (panel) type	Wind load		Ref
	class	[PaJ	
Metecno Door Panel (Secuwall), no cassette	5	1300	1)
Metecno Door Panel (Secuwall), with cassette	4		1)
Metecno Door Panel, fingersafe, with pass door SafeStep	2		9)
Flexi-Force Full vision (single glazed panels)	5	1300	1)
Flexi-Force- Metecno Full vision, fingersafe	5	1300	1) 11)
Flexi-Force- Metecno, Full vision, fingersafe, with pass door SafeStep	2	-	1) 11)

Test reports SP No and date: 1) P403076, Feb 7, 2005 2) P805340E, 2008-12-15 3) P805340F, 2005-12-15  
Fv = Full vision, fs = fingersafe

### 1.2 Determination of air permeability

#### 1.2.1 Door test

Door (panel) type	Air permeability class	Ref
Metecno Door Panel (Secuwall), no cassette		)
Metecno Door Panel (Secuwall), with cassette		l
Metecno Door Panel (Secuwall), 3 windows 2200	2	'
Metecno Door Panel (Secuwall), 3 windows 2240		)
Metecno Door Panel (Secuwall), T F windows	2	)
Metecno Door Panel, fingersafe, with pass door SafeStep	0	
Flexi-Force Full vision (single glazed panels)	3	'
Flexi-Force- Metecno Full vision, fingersafe	3	) 11)
Flexi-Force- Metecno Full vision, fingersafe, with pass door SafeStep	1	11)

Test reports SP No and date: 1) P403076, Feb 7, 2005 9) P90511 I-01 C, 2009-10-01 11) P900807-03A, 2010-06-02  
Fv = Full vision, fs = fingersafe

#### 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 (ref)	Air leakage, m <sup>3</sup> /h	Window type, No (ref)	Air leakage, m <sup>3</sup> /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]	Ref
Metecno Door Panel (Secuwall), no cassette	3	90	1)
Metecno Door Panel (Secuwall), with cassette	3	90	1)
Metecno Door Panel (Secuwall), 3 windows 2200	0		)
Metecno Door Panel (Secuwall), 3 windows 2240	2	-	1)
Metecno Door Panel, fingersafe, with pass door SafeStep	0	-	9)
Flexi-Force Full vision (single glazed panels)	3	70	/)
Flexi-Force- Metecno, Full vision, finger safe	3	70	1) 11)
Flexi-Force- Metecno, Full vision, finger safe, with pass door SafeStep	0		1) 11)

Test reports SP No and date: 1) P403076, Feb 7, 2005 9) P905811-01C, 2009-10-01 11) P900807-03A, 2010-06-02  
Fv = Full vision, fs = fingersafe

#### 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 (ref report)	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	100
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 2500 x 2610	Thermal transmittance, d... [ (<sup>2</sup>O I			
	p	pw4	pd	g
Metecno Door Panel (Secuwall) /pass door SafeStep 1) 3)	1.5	1.7	2.5	-
Metecno Door Panel, fingersafe /pass door SafeStep 3)	1.8		2.5	
Flexi-Force Full vision (single glazed panels) 1)				6.0
Flexi-Force Metecno Full vision, fs, pass door SafeStep 1) 5)			6.0	6.0

p - covered panels only

pw4 - covered panels with four windows

Fv = Full vision; fs = fingersafe;

Test reports SP No: 1) P403076, 2005-02-07

pd = covered panels and a pass door SafeStep

g = fully glazed door

nfs = non-fingersafe; cowcovered

3) P905811-02, rev 2009-12-11 5) P900807-03A, 2010-06-02

### 1.5 Safe opening

Component Flexi-Force Spring break device	Door weight per SBD	Test report SP No, date
FF type: 651, 667	85 kg	P403076, 2005-02-07 PX20720-03 D, 2013-02-24
FF type: 656, 656T, 656C, 656TC	112.5 kg	P803817, 2005-07-09 PX20720-03 D, 2013-02-24
FF type: 656 SR/L, 656 STR/L, 656 SCTR/L	114 kg	PX20720-02A, 2012-06-04 PX20720-03 D, 2013-02-24

### 1.6 Dangerous substances

Requirement	Result	Test Report, dated
Release of Dangerous substances	Pass	SP No. P403076, 2005-02-07 SP No. P900807-02A, 2009-06-26 SP No. P905811-03A, 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

Door panel type	Width [m]	Height [m]	Wind load Class	Wind load [Pa]	Maximum pressure [Pa]
Metecno DoorPanel(Secuwall)	1) 2500	500	5	2599	3574
Metecno Door Panel(Secuwall)	1) 5000	500	2		1030
Metecno Door Panel(Secuwall),3 windows	1) 2540	500	4		1392
Metecno Door Panel (Secuwall),5 windows 420*280	1) 5000	490	1		556

Test reports SP No: 1 ) P403076, dated 2005-02-07

### 3. Operating forces

The following operators were tested together with the test door and performed in accordance with the requirements. Bottom seal FF-Flexi-Force, Std=standard.

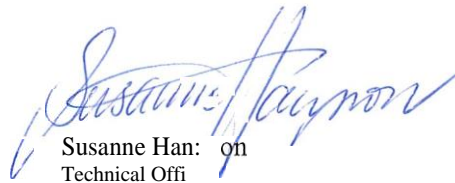
Machinery	Bottom seal	Maximum weight [kg]	Test report No, dated SP/ SKG/
Chamberlain Liftmaster 60, 800	FF std	110	P403076, 2005-02-07
Chamberlain Liftmaster 1000, 5580	FF std	160	
Chamberlain LM80R-128, LM80R- 128H	FF std	110	PX10532-01A, 2011-03-21
Chamberlain Liftmaster LM50K /EVO <sup>3</sup>	FF 1035RES	100	SKG 11.1114 revA 2011-12-06
Chamberlain Liftmaster LM3800	FF 1035L, fire shield profile 1041 L3000	100	SKG 11.1115, 2011-11-30
Chamberlain Liftmaster LM 3800	FFstd	146	P805340-01-D, 2009-01-22
Chamberlain HE60XX/ML500XX	FFstd	160	P805340-01-D, 2009-01-22
Chamberlain LM60EVO	FF 1035RES	120	SKG 12.1120, 2013-01-09
Chamberlain LM80EVO	FF 1035RES	140	SKG 12.1121, 2013-01-09
	FF 1035	223	
Chamberlain LM 100EVO	FF 1035	220	SKG 12.1122, 2013-01-09

\*3 Statement from Chamberlain that LM50 EVO is the same construction and the same performance as tested LM50K

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