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Door-System Kft.
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Summary Initial Type-Testing Report for EC Declaration of Conformity for Garage Door

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.

Issued for Manufacturer/Factory

Door-System Kft., Almakerék u. 4, 1044 Budapest, Hungary

Product name and description

Garage door type	REWLEX
Weight of door	Max. weight: 160 kg
Day-light, maximum	width 5000; height 3000 mm
Day-light, tested	width 2500; height 2610 mm
Panel manufacturer	Ryterna, Metecno Door Panel
Hardware FlexiForce	RES-X (test report SP P403076, 2005-02-07) RES 70 (test report SP P403076, 2005-02-07) RES 200 (test report SP P403076, 2005-02-07) RES 350 (test report SP P704194, 2007-09-18)
Balancing system	Flexi-Force Torsion spring
Spring break device	See chapter 1.5
Machinery / Operator	See chapter 3
Bottom seal	See chapter 3

SP Technical Research Institute of Sweden

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1 Test of fully assembled Door

1.1 Wind Load

Test report SP No. P403076, dated Feb 7, 2005

Door (panel) type	Wind load class	Maximum pressure [Pa]
Ryterna	5	1300
Metecno Door Panel (Secuwall), no cassette	5	1300
Metecno Door Panel (Secuwall), with cassette	4	-

1.2 Determination of air permeability

Test report SP No. P403076, dated Feb 7, 2005

Door (panel) type	Air permeability class
Ryterna	2
Metecno Door Panel (Secuwall), no cassette	3
Metecno Door Panel (Secuwall), with cassette	3
Metecno Door Panel (Secuwall), 3 windows 2200	2
Metecno Door Panel (Secuwall), 3 windows 2240	3
Metecno Door Panel (Secuwall), T F windows	2

1.3 Resistance to water penetration

Test report SP No. P403076, dated Feb 7, 2005

Door (panel) type	Water penetration class	Maximum pressure [Pa]
Ryterna	3	90
Metecno Door Panel (Secuwall), no cassette	3	90
Metecno Door Panel (Secuwall), with cassette	3	90
Metecno Door Panel (Secuwall), 3 windows 2200	0	-
Metecno Door Panel (Secuwall), 3 windows 2240	2	-

1.4 Thermal resistance

Door panel type 2500 x 2610 mm	Thermal transmittance, U_{door} [W/(m ² K)]			
	p	pw4	pd	g
Ryterna	1.7	1.8	-	-
Metecno Door Panel (Secuwall)	1.5	1.7	-	-
Metecno Door Panel (Secuwall) (pass door 0.85x2.40 m)	-	-	2.3	-

p = door with covered panels only

pd = covered panels with windows and a pass door

pw4 = covered panels with four windows

g = fully glazed door

All configurations according to test report SP No. P403076, 2005-02-07

1.5 Safe opening

Component (FF = Flexi-Force)	Door weight	Test report SP No, date
Spring break device FF type type 651, 667	225 kg	P403076, 2005-02-07
Spring break device FF type type 656	170 kg	P705408J, 2007-12-19

1.6 Dangerous substances

Requirement	Result	Test Report, dated
Dangerous substances	Pass	SP No. P403076, 2005-02-07

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

Test report No. P403076, dated Feb 7, 2005

Door panel type	Width [mm]	Height [mm]	Wind load Class	[Pa]	Maximum pressure [Pa]
Ryterna, E 48119 M-DB FXF-CND	2550	490	5	3 522	4 842
Ryterna	5000	490	3	-	1 251
Ryterna, 3 windows FF type 2240E 48119 M-DB	2550	490	5	1 270	1 756
Ryterna, five windows 420*280	5000	490	2	-	693
Metecno Door Panel (Secuwall)	2500	500	5	2 599	3 574
Metecno Door Panel (Secuwall)	5000	500	2	-	1 030
Metecno Door Panel (Secuwall), three windows	2540	500	4	-	1 392
Metecno Door Panel (Secuwall), five windows 420*280	5000	490	1	-	556

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.

Machinery	Bottom seal	Maximum weight [kg]	Test report SP No., dated
Nice Spin 10	FF 1039	140	P502949B, 2005-06-21
Nice Spin 20	FF 1037, FF 1039	160	P502949B, 2005-06-21
Nice Spin 30	FF 1037, FF 1039	160	P502949B, 2005-06-21
Nice Spin 40	FF 1039	160	P502949B, 2005-06-21

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