REPORT

issued by notified body No. 0402

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Tule street 17
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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

Hansadoor LCC, Tule street 17, 76505 Saue, Estonia

Product name and description

Garage door type	HD - RES	
Weight of door	Max. weight: 160 kg	
Day-light, maximum Day-light, tested	width 5000; height 3000 mm width 2500; height 2610 mm	
Manufacturer (type of panels)	Ryterna, ThyssenKrupp-Hoesch	
Hardware FlexiForce	RES-X RES 70 RES 200 RES 350	(test report SP P403076, 2005-02-07) (test report SP P403076, 2005-02-07) (test report SP P403076, 2005-02-07) (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	

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
ThyssenKrupp Hoesch (Sectiotec®Plus)	5	1300

1.2 Determination of air permeability

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

Door (panel) type	Air permeability class
Ryterna	2
ThyssenKrupp Hoesch (Sectiotec®Plus)	3

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
ThyssenKrupp Hoesch (Sectiotec®Plus)	3	110

1.4 Thermal resistance

Door panel type 2500 x 2610 mm Test report SP No. P403076, 2005-02-07	Thermal transmittance, U_{door} [W/(m²K)]			
	p	pw4	pd	g
Ryterna	1.7	1.8	-	-
ThyssenKrupp Hoesch (Sectiotec®Plus)	1.6	1.8	-	-
ThyssenKrupp Hoesch (pass door 0.85x2.40 m)	-	-	2.4	-

p = door with covered panels only
pw4 = covered panels with four windows
pd = covered panels with windows and a pass door
g = fully glazed door

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	Wind load [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
ThyssenKrupp Hoesch (Sectiotec®Plus)	2540	490	5	3 724	5 120
ThyssenKrupp Hoesch (Sectiotec®Plus)	5000	490	3	-	1 282
ThyssenKrupp Hoesch, three windows	2540	610	5	1 616	2 222
ThyssenKrupp Hoesch, five windows 420*280	5000	490	1	-	463

3. Operating forces

Following operators were tested together with the test door and performed in accordance with the requirements. Bottom seal FF = Flexi-Force. The weight of the door was 110 to 160 kg.

Machinery	Bottom seal	Maximum weight [kg]	Test report SP No., dated
Chamberlain Liftmaster 60	FF standard	110	P403076, 2005-02-07
Chamberlain Liftmaster 800	FF standard	110	P403076, 2005-02-07
Chamberlain Liftmaster 1000	FF standard	160	P403076, 2005-02-07
Chamberlain Liftmaster 5580	FF standard	160	P403076, 2005-02-07
BFT EOS 60 chain/(belt) Software 3.3	FF 1039	160	P502949A, 2005-06-20

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