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Kalibra Nova s.r.o.
Hroznětinská 183
CZ - 360 32 Karlovy Vary Otovice
Czech Republic

Initial Type-Testing Report for EC Declaration of Conformity for Industrial 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

Kalibra Nova s.r.o. Hroznětinská 183, 360 32 Karlovy Vary Otovice, Czech Republic

Product name and description

| | |
|-----------------------------|---|
| Industrial Door Type | Novotek, normal lift |
| Day-light, width and height | width 4000 mm, height 3500 mm |
| Type of panels | Tekla Bremet |
| Weight of doors | Max 700 kg |
| Hardware | FlexiForce Vertical angle code 9VB 2" straight tracks code 2V Side seal code 1085 Top seal code 1036-36 |
| Machinery / Operator | See chapter 3 of this report |
| Balancing system | 400 kg 550 kg 700 kg |
| Spring break device | FlexiForce type 670 |
| Cable break device | FlexiForce type 440 HD and 440-3 |
| Safety edge | See chapter 3 of this report |



1 Test of fully assembled Door

1.1 Wind Load

Test report SP No. P403429, dated Aug 26, 2005

| Door panel type | Wind load Class | Maximum pressure [Pa] |
|--|-----------------|-----------------------|
| Tekla covered | 4 | - |
| Bremet Monowall covered | 3 | - |
| Bremet Monowall with windows | 2 | - |
| Bremet Monowall with pass door | 1 | - |
| Bremet Monowall with windows, cylinder lock and handle/footplate 1 | 3 | - |
| Bremet Monowall with windows, cylinder lock and handle/footplate 2 | 3 | - |

1.2 Determination of air permeability

Test report SP No. P403429, dated Aug 26, 2005

| Door panel type | Air permeability class |
|--|------------------------|
| Tekla covered | 3 |
| Bremet Monowall covered | 4 |
| Bremet Monowall with windows | 3 |
| Bremet Monowall with pass door | 2 |
| Bremet Monowall with windows, cylinder lock and handle/footplate 1 | 3 |
| Bremet Monowall with windows, cylinder lock and handle/footplate 2 | 3 |

1.3 Resistance to water penetration

Test report SP No. P403429, dated Aug 26, 2005

| Door panel type | Water penetration class | Maximum pressure [Pa] |
|---|-------------------------|-----------------------|
| Tekla covered | 3 | 70 Pa |
| Bremet Monowall covered | 3 | 70 Pa |
| Bremet Monowall with all windows FF No. 2400-90 | 0 | - |
| Bremet Monowall with pass door | 0 | - |
| Bremet Monowall with: | | |
| window no. 2380 | 0 | - |
| window no. 2390 | 0 | - |
| window no. 2400-90 | 0 | - |
| window no. 2445 | 0 | - |
| window no. 2397 | 0 | - |
| cylinder lock no. 637 | 0 | - |
| handle/footplate no. 640T | 0 | - |
| handle/footplate no. 642BL | 3 | 70 |
| Bremet Monowall with: | | |
| window no. 2400-90 | 2 | - |
| window no. 2397 | 0 | - |
| cylinder lock no. 637 | 0 | - |
| handle/footplate no. 640T | 3 | 70 Pa |

1.4 Thermal resistance

Test report SP No. P403429, dated Aug 26, 2005

| Door panel type | Thermal transmittance, W/(m ² K) | | | | | |
|------------------|---|-----|-----|-----|---|----|
| | p | pw | pd | pwd | g | gd |
| Bremet, Secuwal | 1.1 | 1.1 | 1.2 | 1.2 | - | - |
| Bremet, Monowall | 0.8 | 0.9 | 0.9 | 1.0 | - | - |
| Tekla | 1.1 | 1.2 | 1.2 | 1.3 | - | - |

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

| Product name | Requirement | Result | Test Report |
|-----------------|--|--------|--|
| Industrial door | Operating forces * | Pass | SP No. P403429, dated Aug 26, 2005 |
| | Safe opening (Door weight 400, 550 kg and 700 kg) | Pass | SP No. P403429, dated Aug 26, 2005 |
| | Dangerous substances | Pass | SP No. P403429, dated Aug 26, 2005 |
| | Durability of water tightness, thermal resistance and air permeability | Pass | TNO 2005-BCS-R0014, dated Jan 11, 2005 |

* See different operators, chapter 3 in this report.

2. Single panel test, resistance to wind load

Test report SP No. P403429, dated Aug 26, 2005

| Door panel type | Width [mm] | Height [mm] | Wind load Class | [Pa] | Maximum pressure [Pa] |
|---|------------|-------------|-----------------|------|-----------------------|
| Tekla 40 mm | | | | | |
| covered | 4000 | 550 | 5 | 1156 | 1590 |
| 4 windows | 4000 | 550 | 2 | - | 645 |
| covered | 6000 | 550 | 2 | - | 721 |
| 6 windows | 6000 | 550 | 0 | - | 293 |
| reinforcement profile 65S | 7500 | 550 | 2 | - | 902 |
| reinforcement profile 110S | 8500 | 560 | 3 | - | 1073 |
| 7 windows, reinforcement profile 65S | 7500 | 560 | 1 | - | 531 |
| 8 windows, reinforcement profile 110S | 8525 | 560 | 2 | - | 954 |
| Bremet 40 mm | | | | | |
| non-fingersafe | 4000 | 610 | 5 | 1075 | 1477 |
| non-fingersafe, 4 windows | 4000 | 610 | 2 | - | 842 |
| non-fingersafe | 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 110S | 8500 | 610 | 3 | - | 976 |
| non-fingersafe, 7 windows, reinforcement profile 65S | 7500 | 610 | 1 | - | 536 |
| non-fingersafe, 8 windows, reinforcement profile 110S | 8525 | 610 | 2 | - | 793 |

3. Operating forces

The operator were tested together with the test doors using FlexiForce vertical lift track system, different control units and bottom seal rubbers. The configurations are shown in the following table. The weight of the test doors was 550 to 700 kg.


The following operator performed in accordance with the requirements, see test report SP No. P403429, dated August 26, 2005.

3.1 Marantec operators

| Door Weight | Machinery | Control unit/ Sensor | Bottom seal rubber | Speed [mm/s] | Fulfil requirements |
|-------------|----------------------|------------------------------------|------------------------------------|--------------|---------------------|
| 700 kg | Marantec Dynamic 3XX | Control 144N/ SKS optosensor | Flexiforce 1039-95 | ~300 | Yes |
| 700 kg | Marantec Dynamic 3FU | Control 145FU-S/ SKS optosensor | Flexiforce 1039-95 | ~363 | Yes |
| 550 kg | Marantec Dynamic 3XX | Control 144N/ SKS optosensor | Flexiforce 1039-52 | ~174 | Yes |
| 550 kg | Marantec Dynamic 3XX | Control 144N/ SKS optosensor | Marantec 63826 Torabschluss profil | ~174 | Yes |
| 550 kg | Marantec Dynamic 1XX | Control 14N/ SKS optosensor | Flexiforce 1039-52 | ~174 | Yes |
| 550 kg | Marantec Dynamic 1XX | Control 14N/ SKS optosensor | Marantec 63826 Torabschluss profil | ~174 | Yes |

**SP Swedish National Testing and Research Institute
Certification**


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