

IV Product pass declaration of performance & CE marking

IV.1 GENERAL EXPLANATION

Following paragraphs indicate the performances which can be declared on the Declaration of Performance (DoP) in accordance with the Regulation EU 305/2011 of the European Parliament and of the Council of 9 March 2011.

The listed essential characteristics are the essential characteristics mentioned in hEN 14351-1+A1:2010: Windows and doors - Product standard, performance characteristics - Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke leakage characteristics.

All essential characteristics should be mentioned on the DoP. Where no performance is required, NPD (No Performance Declared) can be used.

The mentioned performances are performances which can be achieved for the given dimensions when the product is fabricated following the Reynaers instruction manual (catalogue). The performances as mentioned will meet the requirements of the majority of projects.

Higher performances for smaller dimensions or lower performances for larger dimensions might be possible. In this case contact your Reynaers office. For AWW performances, the maximum dimensions indicated in the system catalogue must be respected.

It is evident that it is allowed to declare lower performances than those mentioned in the product pass. E.g. when resistance to wind load of 1600 Pa was tested, also 1200 Pa can be declared.

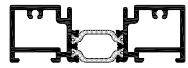

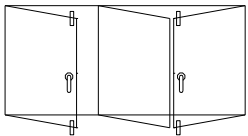
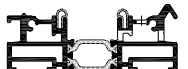

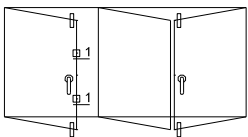


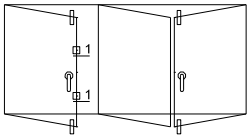


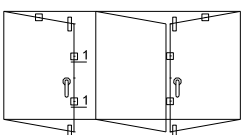


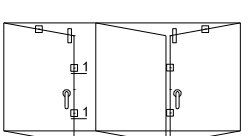

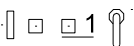
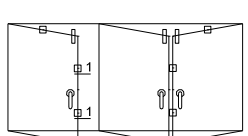
In the second part of the table the non essential characteristics are indicated. These are the characteristics which give information about the performance of a product, but which are not legally required in any European country and thus not mandatory to declare.

IV.2 NOTIFIED BODIES

| No | Notified body | Name | Address | Country |
|------|---------------|---|---|----------------|
| [1] | 0960 | SKG | Nieuwe Kanaal 9F 6700 AJ Wageningen | Netherlands |
| [2] | 0757 | IFT ROSENHEIM | Theodor-Gietl-Strasse 7-9 83026 Rosenheim | Germany |
| [3] | 1488 | INSTYTUT TECHNIKI BUDOWLANEJ (ITB) | ul. Filtrowa 1 00-611 Warszawa | Poland |
| [4] | 1136 | BELGIAN BUILDING RESEARCH INSITUTE (BBRI) | Lombardstraat 42 1000 Brussel | Belgium |
| [5] | 1769 | UNIVERSITY OF GENT | Sint-Pietersnieuwstraat 41 9000 Gent | Belgium |
| [6] | 0432 | MATERIALPRÜFUNGSAMT NORDRHEIN-WESTFALEN (MPA NRW) | Auf den Thronen 2 59597 Erwitte | Germany |
| [7] | 1288 | WINTech ENGINEERING LIMITED | Halesfield 2 Telford, Shropshire TF7 4QH | United Kingdom |
| [8] | 0679 | CENTRE SCIENTIFIQUE ET TECHNIQUE DU BÂTIMENT (CSTB) | 84, Avenue Jean Jaurès Champs-sur-Marne F-77447 Marne-la-Vallée Cedex 2 | France |
| [9] | 0074 | CENTRE D'EXPERTISE DU BÂTIMENT ET DES TRAVAUX PUBLICS (CEBTP) | Domaine De Saint-Paul – 102, Route de Limours 78471 Saint-Remy-Les-Chevreuse Cedex | France |
| [10] | 0744 | SOCOTEC | Les Quadrants – 3, Avenue du Centre – Guyancourt 78182 St-Quentin en Yvelines | France |
| [11] | 1671 | PEUTZ | Lindenlaan 41 – Molenhoek PO Box 66 6585 ZH Mook | Netherlands |
| [12] | 1749 | TNO DEFENCE, SECURITY AND SAFETY | Lange Kleiweg 137 Postbus 45 2280 AA Rijswijk | Netherlands |
| [13] | 0749 | BELGIAN CONSTRUCTION CERTIFICATION ASSOCIATION (BCCA) | Aarlenstraat 53 1040 Brussel | Belgium |
| [14] | 1309 | PRÜFINSTITUT SCHLÖSSER UND BESCHLÄGE, VELBERT (PIV) | Wallstrasse 41 42551 Velbert | Germany |
| [15] | 0845 | DANISH INSTITUTE OF FIRE AND SECURITY TECHNOLOGY (DBI) | Jernholmen, 12 2650 Hvidovre | Denmark |

IV.3 VARIANTS

Different variants have been grouped based on similar design and following the guidelines of the harmonised standard.

| Opening type (in and outward opening) | | Covered variants | | |
|--|---|---|---|--|
| IV.5.1 |  108.0934.XX Only internal use | L1  |  | 1-1-0 2-0-2/2-1-1/2-2-0 3-0-3/3-1-2/3-2-1/3-3-0 4-0-4/4-1-3/4-2-2/4-3-1/4-4-0 5-0-5/5-1-4/5-2-3/5-3-2/5-4-1/5-5-0 6-0-6/6-1-5/6-2-4/6-3-3/6-4-2/6-5-1/6-6-0 7-0-7/7-1-6/7-2-5/7-3-4/7-4-3/7-5-2/7-6-1/7-7-0 8-0-8/8-1-7/8-2-6/8-3-5/8-4-4/8-5-3/8-6-2/8-7-1/8-8-0 |
| IV.5.2 |  108.1935.XX | L2  |  | 1-1-0 2-0-2/2-1-1/2-2-0 3-0-3/3-1-2/3-2-1/3-3-0 4-0-4/4-1-3/4-2-2/4-3-1/4-4-0 5-0-5/5-1-4/5-2-3/5-3-2/5-4-1/5-5-0 6-0-6/6-1-5/6-2-4/6-3-3/6-4-2/6-5-1/6-6-0 7-0-7/7-1-6/7-2-5/7-3-4/7-4-3/7-5-2/7-6-1/7-7-0 8-0-8/8-1-7/8-2-6/8-3-5/8-4-4/8-5-3/8-6-2/8-7-1/8-8-0 |
| IV.5.3 |  108.0945.XX | L3  |  | 1-1-0 2-0-2/2-1-1/2-2-0 3-0-3/3-1-2/3-2-1/3-3-0 4-0-4/4-1-3/4-2-2/4-3-1/4-4-0 5-0-5/5-1-4/5-2-3/5-3-2/5-4-1/5-5-0 6-0-6/6-1-5/6-2-4/6-3-3/6-4-2/6-5-1/6-6-0 7-0-7/7-1-6/7-2-5/7-3-4/7-4-3/7-5-2/7-6-1/7-7-0 8-0-8/8-1-7/8-2-6/8-3-5/8-4-4/8-5-3/8-6-2/8-7-1/8-8-0 |
| IV.5.4 |  108.0946.XX | L4  |  | 1-1-0 2-0-2/2-1-1/2-2-0 3-0-3/3-1-2/3-2-1/3-3-0 4-0-4/4-1-3/4-2-2/4-3-1/4-4-0 5-0-5/5-1-4/5-2-3/5-3-2/5-4-1/5-5-0 6-0-6/6-1-5/6-2-4/6-3-3/6-4-2/6-5-1/6-6-0 7-0-7/7-1-6/7-2-5/7-3-4/7-4-3/7-5-2/7-6-1/7-7-0 8-0-8/8-1-7/8-2-6/8-3-5/8-4-4/8-5-3/8-6-2/8-7-1/8-8-0 |
| IV.5.5 |  108.0946.XX | L5  |  | 1-1-0 2-0-2/2-1-1/2-2-0 3-0-3/3-1-2/3-2-1/3-3-0 4-0-4/4-1-3/4-2-2/4-3-1/4-4-0 5-0-5/5-1-4/5-2-3/5-3-2/5-4-1/5-5-0 6-0-6/6-1-5/6-2-4/6-3-3/6-4-2/6-5-1/6-6-0 7-0-7/7-1-6/7-2-5/7-3-4/7-4-3/7-5-2/7-6-1/7-7-0 8-0-8/8-1-7/8-2-6/8-3-5/8-4-4/8-5-3/8-6-2/8-7-1/8-8-0 |
| IV.5.6 |  108.0946.XX | L6  |  | 1-1-0 2-0-2/2-1-1/2-2-0 3-0-3/3-1-2/3-2-1/3-3-0 4-0-4/4-1-3/4-2-2/4-3-1/4-4-0 5-0-5/5-1-4/5-2-3/5-3-2/5-4-1/5-5-0 6-0-6/6-1-5/6-2-4/6-3-3/6-4-2/6-5-1/6-6-0 7-0-7/7-1-6/7-2-5/7-3-4/7-4-3/7-5-2/7-6-1/7-7-0 8-0-8/8-1-7/8-2-6/8-3-5/8-4-4/8-5-3/8-6-2/8-7-1/8-8-0 |

IV.4 EXPLANATIONS AND SYMBOLS

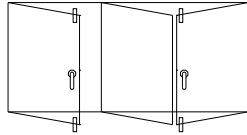
| | |
|------|--|
| H | Element Height |
| B | Element Width |
| Fh | Vent Height |
| Fb | Vent Width |
| npd | No Performance Declared |
| CWFT | Classification Without Further Testing |

IV.5 PERFORMANCE

IV.5.1 Classifications for L1

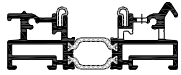


108.0934.XX

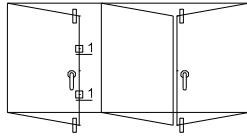


| Characteristic | No | Classification | Notified body - Report | Limits (mm) |
|---|------|---|--|---------------------------|
| Essential characteristics | | | | |
| Watertightness (EN 12208) | 4.5 | npd | | |
| Dangerous substances | 4.6 | In the materials delivered by Reynaers, no dangerous substances as indicated in hEN14351-1 are used | | |
| Resistance to wind load (EN 12210) | 4.2 | B2 (800 Pa) only for AP version | [1] – 10.1155 | FbxFh<1200x3000 |
| Impact resistance (EN 13049) | 4.7 | npd | | |
| Load-bearing capacity of safety devices (EN 948) | 4.8 | npd | | |
| Height and width | 4.9 | Height: Width: | See IV.6 | |
| Acoustic performance (EN ISO 140-3 & EN ISO 717-1) | 4.11 | npd | | |
| Thermal transmittance (EN ISO 10077-1) | 4.12 | Ud to be calculated in function of the project. Uf-values are calculated under certification of BCCA [13]. Certificate BPCB - 420 - 72 - 10077/2 REYN - 02. | | |
| Radiation properties (EN 410) | 4.13 | These properties must be evaluated by the CE-label of the glass | | |
| Air permeability (EN 12207) | 4.14 | npd | | |
| Non-essential characteristics | | | | |
| Reaction to fire (EN 13501-1) | 4.4 | Painted alu. profile: A2 Gaskets: E | Certificate P155748 [6] – 230006500-6 | |
| Operating forces (EN 12217) | 4.16 | npd | | |
| Mechanical strength (EN 1192) | 4.17 | npd | | |
| Ventilation (EN 13141-1) | 4.18 | npd | | |
| Bullet resistance (EN 1522) | 4.19 | npd | | |
| Explosion resistance (EN 13123-1 & EN 13123-2) | 4.20 | npd | | |
| Resistance to repeated opening and closing (EN 12400) | 4.21 | npd | | |
| Behaviour between different climates (EN 12219) | 4.22 | npd | | |
| Burglar resistance (EN 1627) AP version | 4.23 | RC 2 | [4] – CAR 10237-1&2 [4] – CAR 11294 | See report |

IV.5.2 Classifications for L2

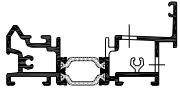


108.1935.XX

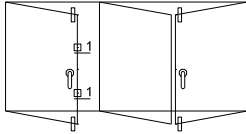


| Characteristic | No | Classification | Notified body - Report | Limits (mm) |
|---|------|---|---|--|
| Essential characteristics | | | | |
| Watertightness (EN 12208) | 4.5 | 4A (150 Pa) | [1] – 10.1155 | FbxFh<1200x3000 |
| Dangerous substances | 4.6 | In the materials delivered by Reynaers, no dangerous substances as indicated in hEN14351-1 are used | | |
| Resistance to wind load (EN 12210) | 4.2 | B2 (800 Pa) | [1] – 10.1155 | FbxFh<1200x3000 |
| Impact resistance (EN 13049) | 4.7 | 3 | [1] – 11.186 | FbxFh>1000x2250 |
| Load-bearing capacity of safety devices (EN 948) | 4.8 | npd | | |
| Height and width | 4.9 | Height: Width: | See IV.6 | |
| Acoustic performance (EN ISO 140-3 & EN ISO 717-1) | 4.11 | npd | | |
| Thermal transmittance (EN ISO 10077-1) | 4.12 | Ud to be calculated in function of the project. Uf-values are calculated under certification of BCCA [13]. Certificate BPCB - 420 - 72 - 10077/2 REYN - 02. | | |
| Radiation properties (EN 410) | 4.13 | These properties must be evaluated by the CE-label of the glass | | |
| Air permeability (EN 12207) | 4.14 | 2 | [1] – 10.1155 | FbxFh<1200x3000 |
| Non-essential characteristics | | | | |
| Reaction to fire (EN 13501-1) | 4.4 | Painted alu. profile: A2 Gaskets: E | Certificate P155748 [6] – 230006500-6 | |
| Operating forces (EN 12217) | 4.16 | 1 | [1] – 10.1155 | FbxFh<1200x3000 |
| Mechanical strength (EN 1192) | 4.17 | 4 | [1] – 10.1155 | FbxFh<1200x3000 |
| Ventilation (EN 13141-1) | 4.18 | npd | | |
| Bullet resistance (EN 1522) | 4.19 | npd | | |
| Explosion resistance (EN 13123-1 & EN 13123-2) | 4.20 | npd | | |
| Resistance to repeated opening and closing (EN 12400) | 4.21 | 3 (20 000) | [1] – 09.1159 | FbxFh<754x2112 120 kg Notter wheels & hinges |
| Behaviour between different climates (EN 12219) | 4.22 | npd | | |
| Burglar resistance (EN 1627) AP version | 4.23 | RC 2 | [4] – CAR 10237-1&2 [4] – CAR 11294 | See report |

IV.5.3 Classifications for L3

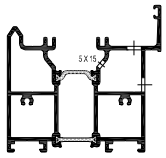


108.0945.XX

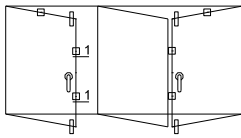


| Characteristic | No | Classification | Notified body - Report | Limits (mm) | |
|---|------------|---|---|--|------------------------|
| Essential characteristics | | | | | |
| Watertightness (EN 12208) | 4.5 | 5A (200 Pa) | [1] – 10.198 | FbxFh<1200x3000 | |
| Dangerous substances | 4.6 | In the materials delivered by Reynaers, no dangerous substances as indicated in hEN14351-1 are used | | | |
| Resistance to wind load (EN 12210) | 4.2 | B2 (800 Pa) | [1] – 10.198 | FbxFh<1200x3000 | |
| Impact resistance (EN 13049) | 4.7 | 3 | [1] – 11.186 | FbxFh>1000x2250 | |
| Load-bearing capacity of safety devices (EN 948) | 4.8 | npd | | | |
| Height and width | 4.9 | Height: Width: | See IV.6 | | |
| Acoustic performance (EN ISO 140-3 & EN ISO 717-1) | 4.11 | Glass | Element | [1] – 11.167 | BxH = 4070x2400 |
| | | 35 (-2;-6) | 34 (-2;-5) | | |
| | | 45 (-2;-6) | 39 (-1;-4) | [1] – 13.00013 | BxH = 2705x2360 |
| | | 50 (-3;-8) | 40 (-1;-4) | | |
| 51 (-1;-4) | 45 (-1;-5) | | | | |
| Thermal transmittance (EN ISO 10077-1) | 4.12 | Ud to be calculated in function of the project. Uf-values are calculated under certification of BCCA [13]. Certificate BPCB - 420 - 72 - 10077/2 REYN - 02. | | | |
| Radiation properties (EN 410) | 4.13 | These properties must be evaluated by the CE-label of the glass | | | |
| Air permeability (EN 12207) | 4.14 | 2 | [1] – 10.198 | FbxFh<1200x3000 | |
| Non-essential characteristics | | | | | |
| Reaction to fire (EN 13501-1) | 4.4 | Painted alu. profile: A2 Gaskets: E | Certificate P155748 [6] – 230006500-6 | | |
| Operating forces (EN 12217) | 4.16 | 1 | [1] – 10.1155 | FbxFh<1200x3000 | |
| Mechanical strength (EN 1192) | 4.17 | 4 | [1] – 10.1155 | FbxFh<1200x3000 | |
| Ventilation (EN 13141-1) | 4.18 | npd | | | |
| Bullet resistance (EN 1522) | 4.19 | npd | | | |
| Explosion resistance (EN 13123-1 & EN 13123-2) | 4.20 | npd | | | |
| Resistance to repeated opening and closing (EN 12400) | 4.21 | 3 (20 000) | [1] – 09.1159 | FbxFh<754x2112 120 kg Notter wheels & hinges | |
| Behaviour between different climates (EN 12219) | 4.22 | npd | | | |
| Burglar resistance (EN 1627) AP version | 4.23 | RC 2 | [4] – CAR 10237-1&2 [4] – CAR 11294 | See report | |

IV.5.4 Classifications for L4

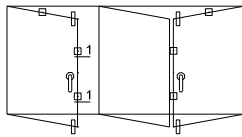
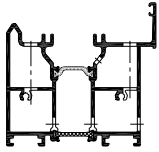


108.0946.XX



| Characteristic | No | Classification | Notified body - Report | Limits (mm) | |
|---|------------|---|---|---|------------------------|
| Essential characteristics | | | | | |
| Watertightness (EN 12208) | 4.5 | 7A (300 Pa) | [1] – 11.153 | FbxFh<1200x2500 | |
| Dangerous substances | 4.6 | In the materials delivered by Reynaers, no dangerous substances as indicated in hEN14351-1 are used | | | |
| Resistance to wind load (EN 12210) | 4.2 | C2 (800 Pa) | [1] – 11.153 | FbxFh<1200x2500 | |
| Impact resistance (EN 13049) | 4.7 | 3 | [1] – 11.186 | FbxFh>1000x2250 | |
| Load-bearing capacity of safety devices (EN 948) | 4.8 | npd | | | |
| Height and width | 4.9 | Height: Width: | See IV.6 | | |
| Acoustic performance (EN ISO 140-3 & EN ISO 717-1) | 4.11 | Glass | Element | [1] – 11.167 | BxH = 4070x2400 |
| | | 35 (-2;-6) | 34 (-2;-5) | | |
| | | 45 (-2;-6) | 39 (-1;-4) | [1] – 13.00013 | BxH = 2705x2360 |
| | | 50 (-3;-8) | 40 (-1;-4) | | |
| 51 (-1;-4) | 45 (-1;-5) | | | | |
| Thermal transmittance (EN ISO 10077-1) | 4.12 | Ud to be calculated in function of the project. Uf-values are calculated under certification of BCCA [13]. Certificate BPCB - 420 - 72 - 10077/2 REYN - 02. | | | |
| Radiation properties (EN 410) | 4.13 | These properties must be evaluated by the CE-label of the glass | | | |
| Air permeability (EN 12207) | 4.14 | 3 | [1] – 11.153 | FbxFh<1200x2500 | |
| Non-essential characteristics | | | | | |
| Reaction to fire (EN 13501-1) | 4.4 | Painted alu. profile: A2 Gaskets: E | Certificate P155748 [6] – 230006500-6 | | |
| Operating forces (EN 12217) | 4.16 | 1 | [1] – 10.1155 | FbxFh<1200x3000 | |
| Mechanical strength (EN 1192) | 4.17 | 4 | [1] – 10.1155 | FbxFh<1200x3000 | |
| Ventilation (EN 13141-1) | 4.18 | npd | | | |
| Bullet resistance (EN 1522) | 4.19 | npd | | | |
| Explosion resistance (EN 13123-1 & EN 13123-2) | 4.20 | npd | | | |
| Resistance to repeated opening and closing (EN 12400) | 4.21 | 3 (20 000) | [1] – 09.1159 | FbxFh<754x2112 120 kg Notter wheels & hinges | |
| Behaviour between different climates (EN 12219) | 4.22 | npd | | | |
| Burglar resistance (EN 1627) AP version | 4.23 | RC 2 | [4] – CAR 10237-1&2 [4] – CAR 11294 | See report | |

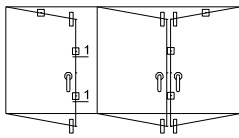
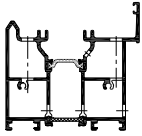
IV.5.5 Classifications for L5



108.0946.XX

| Characteristic | No | Classification | Notified body - Report | Limits (mm) | |
|---|------|---|---|--|------------------------|
| Essential characteristics | | | | | |
| Watertightness (EN 12208) | 4.5 | 8A (450 Pa) | [1] – 11.169 | FbxFh<1200x2500 | |
| Dangerous substances | 4.6 | In the materials delivered by Reynaers, no dangerous substances as indicated in hEN14351-1 are used | | | |
| Resistance to wind load (EN 12210) | 4.2 | C2 (800 Pa) | [1] – 11.169 | FbxFh<1200x2500 | |
| Impact resistance (EN 13049) | 4.7 | 3 | [1] – 11.186 | FbxFh>1000x2250 | |
| Load-bearing capacity of safety devices (EN 948) | 4.8 | npd | | | |
| Height and width | 4.9 | Height: Width: | See IV.6 | | |
| Acoustic performance (EN ISO 140-3 & EN ISO 717-1) | 4.11 | Glass | Element | [1] – 11.167 | BxH = 4070x2400 |
| | | 35 (-2;-6) 45 (-2;-6) 50 (-3;-8) | 34 (-2;-5) 39 (-1;-4) 40 (-1;-4) | | |
| | | | 51 (-1;-4) | 45 (-1;-5) | [1] – 13.00013 |
| Thermal transmittance (EN ISO 10077-1) | 4.12 | Ud to be calculated in function of the project. Uf-values are calculated under certification of BCCA [13]. Certificate BPCB - 420 - 72 - 10077/2 REYN - 02. | | | |
| Radiation properties (EN 410) | 4.13 | These properties must be evaluated by the CE-label of the glass | | | |
| Air permeability (EN 12207) | 4.14 | 4 | [1] – 11.169 | FbxFh<1200x2500 | |
| Non-essential characteristics | | | | | |
| Reaction to fire (EN 13501-1) | 4.4 | Painted alu. profile: A2 Gaskets: E | Certificate P155748 [6] – 230006500-6 | | |
| Operating forces (EN 12217) | 4.16 | 1 | [1] – 10.1155 | FbxFh<1200x3000 | |
| Mechanical strength (EN 1192) | 4.17 | 4 | [1] – 10.1155 | FbxFh<1200x3000 | |
| Ventilation (EN 13141-1) | 4.18 | npd | | | |
| Bullet resistance (EN 1522) | 4.19 | npd | | | |
| Explosion resistance (EN 13123-1 & EN 13123-2) | 4.20 | npd | | | |
| Resistance to repeated opening and closing (EN 12400) | 4.21 | 3 (20 000) | [1] – 09.1159 | FbxFh<754x2112 120 kg Notter wheels & hinges | |
| Behaviour between different climates (EN 12219) | 4.22 | npd | | | |
| Burglar resistance (EN 1627) AP version | 4.23 | RC 2 | [4] – CAR 10237-1&2 [4] – CAR 11294 | See report | |

IV.5.6 Classifications for L6



108.0946.XX

| Characteristic | No | Classification | Notified body - Report | Limits (mm) | |
|---|------|---|---|--|------------------------|
| Essential characteristics | | | | | |
| Watertightness (EN 12208) | 4.5 | 9A (600 Pa) | [1] – 11.176 | FbxFh<1200x2500 | |
| Dangerous substances | 4.6 | In the materials delivered by Reynaers, no dangerous substances as indicated in hEN14351-1 are used | | | |
| Resistance to wind load (EN 12210) | 4.2 | B3 (1200 Pa) C2 (800 Pa) | [1] – 11.176 | FbxFh<1200x2500 | |
| Impact resistance (EN 13049) | 4.7 | 3 | [1] – 11.186 | FbxFh>1000x2250 | |
| Load-bearing capacity of safety devices (EN 948) | 4.8 | npd | | | |
| Height and width | 4.9 | Height: Width: | See IV.6 | | |
| Acoustic performance (EN ISO 140-3 & EN ISO 717-1) | 4.11 | Glass | Element | [1] – 11.167 | BxH = 4070x2400 |
| | | 35 (-2;-6) 45 (-2;-6) 50 (-3;-8) | 34 (-2;-5) 39 (-1;-4) 40 (-1;-4) | | |
| | | 51 (-1;-4) | 45 (-1;-5) | [1] – 13.00013 | BxH = 2705x2360 |
| | | Ud to be calculated in function of the project. Uf-values are calculated under certification of BCCA [13]. Certificate BPCB - 420 - 72 - 10077/2 REYN - 02. | | | |
| Radiation properties (EN 410) | 4.13 | These properties must be evaluated by the CE-label of the glass | | | |
| Air permeability (EN 12207) | 4.14 | 4 | [1] – 11.176 | FbxFh<1200x2500 | |
| Non-essential characteristics | | | | | |
| Reaction to fire (EN 13501-1) | 4.4 | Painted alu. profile: A2 Gaskets: E | Certificate P155748 [6] – 230006500-6 | | |
| Operating forces (EN 12217) | 4.16 | 1 | [1] – 10.1155 | FbxFh<1200x3000 | |
| Mechanical strength (EN 1192) | 4.17 | 4 | [1] – 10.1155 | FbxFh<1200x3000 | |
| Ventilation (EN 13141-1) | 4.18 | npd | | | |
| Bullet resistance (EN 1522) | 4.19 | npd | | | |
| Explosion resistance (EN 13123-1 & EN 13123-2) | 4.20 | npd | | | |
| Resistance to repeated opening and closing (EN 12400) | 4.21 | 3 (20 000) | [1] – 09.1159 | FbxFh<754x2112 120 kg Notter wheels & hinges | |
| Behaviour between different climates (EN 12219) | 4.22 | npd | | | |
| Burglar resistance (EN 1627) AP version | 4.23 | RC 2 | [4] – CAR 10237-1&2 [4] – CAR 11294 | See report | |

IV.6 RULE FOR DEFINITION OF CLEAR OPENING HEIGHT AND WIDTH

The clear opening height g and clear opening width a are defined as indicated in following sketches out of EN 12519:2004:

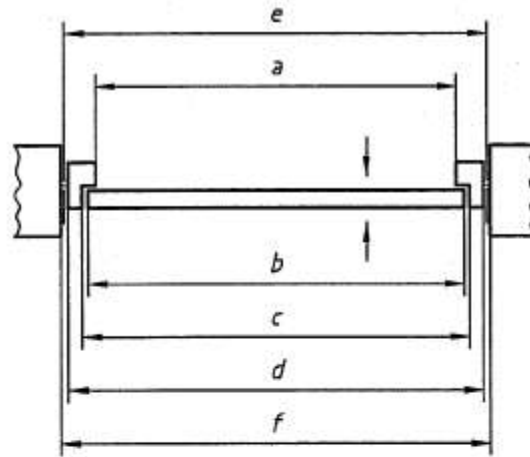


Figure 1/Figure 1/Bild 1

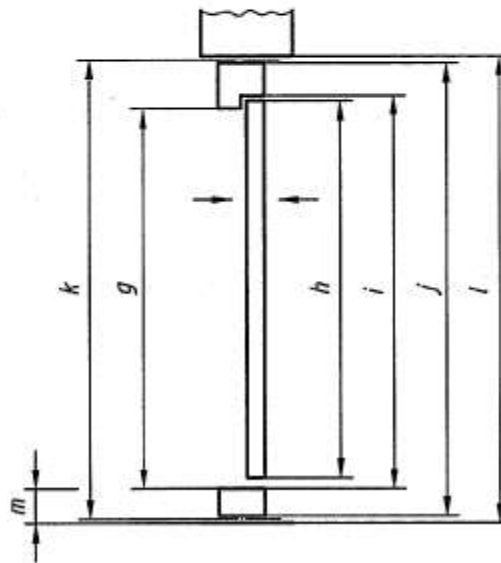


Figure 2/Figure 2/Bild 2