

Certificate

SC0302-09

The product described below and production control has been found to comply with Building Regulations of the National Board of Housing Building and Planning (BBR) with reference to and under conditions described in this certificate.

Pilkington Pyroclear and Pyroclear Plus Fire Protection Glass

Holder

Pilkington Deutschland AG, Haydnstrasse 19, DE-458 84 Gelsenkirchen
VAT nummer: DE 811 141 642
Tel: +49 209 16 80, Fax: +49 209 168 20 75
Internet: www.pilkington.com

Information supplied by

Pilkington Floatglas AB, Box 530, 301 80 Halmstad, Tel: 035-15 30 00, Fax: 035-15 30 30
Internet: www.pilkington.se

Product

Pilkington Pyroclear and Pyroclear Plus, fire resistant glass as monolithic glass or insulating glass unit. Fire resistance classes E 30, EW 30, E 60 or EW 60.

Intended use

Glass panes for installation in vertical fire-cell separating structures made of steel, aluminum or timber that are approved for use in the fire resistance classes as listed below.

Approval

The products have been found to meet the requirements in the following sections of Boverket Building Regulations (BBR), issued by the National Board of Housing, Building and Planning:

Fire resistance classes 5:231

<i>Glass pane</i>	<i>Max size(mm)</i>	<i>Fire resistance class</i>
Pyroclear 30-001	1400 x 3000	E 30
Pyroclear 30-002	1600 x 3000	E 30
Pyroclear 30-003	1800 x 3000	E 30
Pyroclear Line 30-603	1400 x 2870	E 30
Pyroclear 30-007	1458 x 3420, $A_{max} \leq 4,19 \text{ m}^2$	E 30
Pyroclear 30-008	1458 x 3420, $A_{max} \leq 4,19 \text{ m}^2$	E 30
Pyroclear 30-361	1400 x 2600	E 30
Pyroclear 30-362	1400 x 2600	E 30
Pyroclear 30-363	1400 x 2600	E 30
Pyroclear 30-371	1400 x 2869	E 30 ¹⁾
Pyroclear 30-372	1400 x 2869	E 30 ¹⁾
Pyroclear 30-373	1400 x 2869	E 30 ¹⁾
Pyroclear 30-381	1400 x 2869	E 30 ¹⁾
Pyroclear 30-382	1400 x 2869	E 30 ¹⁾
Pyroclear 30-383	1400 x 2869	E 30 ¹⁾
Pyroclear 60-002	1200 x 2830	E 60
Pyroclear 60-003	1200 x 2830	E 60

<i>Glass pane</i>	<i>Max size(mm)</i>	<i>Fire resistance class</i>
Pyroclear Plus 30-362	1680 x 3396, $A_{max} \leq 4,79 \text{ m}^2$	E 30 ¹⁾ /EW 30 ^{1), 2)}
Pyroclear Plus 60-362	1680 x 3396, $A_{max} \leq 4,79 \text{ m}^2$	E 60 ¹⁾ /EW 60 ^{1), 2)}
Pyroclear Plus 30-363	1680 x 3396, $A_{max} \leq 4,79 \text{ m}^2$	E 30 ¹⁾ /EW 30 ^{1), 2)}
Pyroclear Plus 60-363	1680 x 3396, $A_{max} \leq 4,79 \text{ m}^2$	E 60 ¹⁾ /EW 60 ^{1), 2)}
Pyroclear Plus 30-352	1680 x 3396, $A_{max} \leq 4,79 \text{ m}^2$	E 30 ¹⁾ /EW 30 ^{1), 2)}
Pyroclear Plus 60-352	1680 x 3396, $A_{max} \leq 4,79 \text{ m}^2$	E 60 ¹⁾ /EW 60 ^{1), 2)}
Pyroclear Plus 30-353	1680 x 3396, $A_{max} \leq 4,79 \text{ m}^2$	E 30 ¹⁾ /EW 30 ^{1), 2)}
Pyroclear Plus 60-353	1680 x 3396, $A_{max} \leq 4,79 \text{ m}^2$	E 60 ¹⁾ /EW 60 ^{1), 2)}
Pyroclear Plus 30-382	1804 x 3436, $A_{max} \leq 5,21 \text{ m}^2$	E 30 ¹⁾ /EW 30 ^{1), 2)}
Pyroclear Plus 60-382	1797 x 3600, $A_{max} \leq 5,43 \text{ m}^2$	E 60 ¹⁾ /EW 60 ^{1), 2)}
Pyroclear Plus 30-383	1804 x 3436, $A_{max} \leq 5,21 \text{ m}^2$	E 30 ¹⁾ /EW 30 ^{1), 2)}
Pyroclear Plus 60-383	1797 x 3600, $A_{max} \leq 5,43 \text{ m}^2$	E 60 ¹⁾ /EW 60 ^{1), 2)}
Pyroclear Plus 30-372	1804 x 3436, $A_{max} \leq 5,21 \text{ m}^2$	E 30 ¹⁾ /EW 30 ^{1), 2)}
Pyroclear Plus 60-372	1797 x 3600, $A_{max} \leq 5,43 \text{ m}^2$	E 60 ¹⁾ /EW 60 ^{1), 2)}
Pyroclear Plus 30-373	1804 x 3436, $A_{max} \leq 5,21 \text{ m}^2$	E 30 ¹⁾ /EW 30 ^{1), 2)}
Pyroclear Plus 60-373	1797 x 3600, $A_{max} \leq 5,43 \text{ m}^2$	E 60 ¹⁾ /EW 60 ^{1), 2)}
Pyroclear Plus 30-402	1200 x 2800	E 30 ¹⁾ /EW 30 ^{1), 2), 3)}
Pyroclear Plus 30-403	1200 x 2800	E 30 ¹⁾ /EW 30 ^{1), 2), 3)}
Pyroclear Plus 30-362 HS	1680 x 3396, $A_{max} \leq 4,79 \text{ m}^2$	E 30 ¹⁾ /EW 30 ^{1), 2)}
Pyroclear Plus 60-362 HS	1680 x 3396, $A_{max} \leq 4,79 \text{ m}^2$	E 60 ¹⁾ /EW 60 ^{1), 2)}
Pyroclear Plus 30-363 HS	1680 x 3396, $A_{max} \leq 4,79 \text{ m}^2$	E 30 ¹⁾ /EW 30 ^{1), 2)}
Pyroclear Plus 60-363 HS	1680 x 3396, $A_{max} \leq 4,79 \text{ m}^2$	E 60 ¹⁾ /EW 60 ^{1), 2)}
Pyroclear Plus 30-352 HS	1680 x 3396, $A_{max} \leq 4,79 \text{ m}^2$	E 30 ¹⁾ /EW 30 ^{1), 2)}
Pyroclear Plus 60-352 HS	1680 x 3396, $A_{max} \leq 4,79 \text{ m}^2$	E 60 ¹⁾ /EW 60 ^{1), 2)}
Pyroclear Plus 30-353 HS	1680 x 3396, $A_{max} \leq 4,79 \text{ m}^2$	E 30 ¹⁾ /EW 30 ^{1), 2)}
Pyroclear Plus 60-353 HS	1680 x 3396, $A_{max} \leq 4,79 \text{ m}^2$	E 60 ¹⁾ /EW 60 ^{1), 2)}
Pyroclear Plus 30-382 HS	1804 x 3436, $A_{max} \leq 5,21 \text{ m}^2$	E 30 ¹⁾ /EW 30 ^{1), 2)}
Pyroclear Plus 60-382 HS	1804 x 3436, $A_{max} \leq 5,21 \text{ m}^2$	E 60 ¹⁾ /EW 60 ^{1), 2)}
Pyroclear Plus 30-383 HS	1804 x 3436, $A_{max} \leq 5,21 \text{ m}^2$	E 30 ¹⁾ /EW 30 ^{1), 2)}
Pyroclear Plus 60-383 HS	1804 x 3436, $A_{max} \leq 5,21 \text{ m}^2$	E 60 ¹⁾ /EW 60 ^{1), 2)}
Pyroclear Plus 30-372 HS	1804 x 3436, $A_{max} \leq 5,21 \text{ m}^2$	E 30 ¹⁾ /EW 30 ^{1), 2)}
Pyroclear Plus 60-372 HS	1804 x 3436, $A_{max} \leq 5,21 \text{ m}^2$	E 60 ¹⁾ /EW 60 ^{1), 2)}
Pyroclear Plus 30-373 HS	1804 x 3436, $A_{max} \leq 5,21 \text{ m}^2$	E 30 ¹⁾ /EW 30 ^{1), 2)}
Pyroclear Plus 60-373 HS	1804 x 3436, $A_{max} \leq 5,21 \text{ m}^2$	E 60 ¹⁾ /EW 60 ^{1), 2)}
Pyroclear Plus 30-402 HS	1200 x 2800	E 30 ¹⁾ /EW 30 ^{1), 2), 3)}
Pyroclear Plus 30-403 HS	1200 x 2800	E 30 ¹⁾ /EW 30 ^{1), 2), 3)}

¹⁾ Only valid for fire towards the laminated glass.

²⁾ Under conditions stated in the classification report.

³⁾ Also for horizontal applications.

Associated documents

Installation instruction "Pilkington Pyroclear", dated 06-09.

Control

The factory production control (FPC) is to be performed in accordance with instructions for control dated 2009-10-12. Control agreement, ref. no. 310-95-0161, is signed with SP Technical Research Institute of Sweden. SP performs small scale fire tests once a year on products which have been picked out by an accredited inspection body or notified body. An accredited inspection body or a notified body performs an inspection at the manufacturer once a year.

When the building proprietor performs inspection at the building site, he shall check the markings to ensure that the correct products have been supplied and that they are used in accordance with the requirements stated in the approval and the associated documents.


Manufacturer

Production control includes the following site:
Pilkington IGP Sp.z.o.o., Skierniewice, Poland

Marking

The products are to be marked at the factory. The marking consists of a stamp on each delivered glass pane and includes:

Approval holder
P-mark
Product type designation: single glass
insulating glass unit
Certificate number

Pilkington Deutschland AG

e g **Pyroclear 30-001**
e g **Pyroclear Plus 60-DGU**
SC0302-09

Insulating glass unit shall be supplied with stamp on the spacer bar which includes information about glass composition, glass type and space bar.

Basis for approval

Reports no. 271 37144, 271 37145, 271 37146, C-275 38448-1 and C-275 38162-1 from ift Rosenheim, reports no. 305482/A, 3333769, 338864, 377903, 377905 and 377906 from Exova Warringtonfire, reports no. 09-V-335/A, 2011-Efectis-R0816, 2011-Efectis-R1015, EFR-14-V-002337 A, EFR-14-V-003007, EFR-15-V-000038 A and EFR-15-001162 from Efectis France, report no. 3169/620/10 from iBMB MPA Braunschweig, reports no. DMT-DO-61-001, DMT-DO-61-022, DMT-DO-61-0023, K-6001-DMT-DO, K-6003-DMT-DO and K-6004-DMT-DO from DMT GmbH & Co. KG, reports no. 12012003 and 315062904-1 from IBS Linz and report no. Chilt/RF11177 from Chiltern International Fire.

PYROCLEAR GLASRUTA – TEKNISKA DATA, dated 2017-02-15 (29 pages).

Comments

Installation instructions shall be supplied with each delivery of glass.

This certificate supersedes the previous certificate with the same number dated 30 January 2012, valid until 17 November 2014.



Period of validity

This certificate is valid until 15 February 2022.

**SP Technical Research Institute of Sweden
Certification**

Johan Åkesson

Annika Hermodsson