



Northern Express Glass Ltd.

Fire Control



BS EN 1279
CMS 3044



BS EN 12150
CMS 3032 T

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Glass is now firmly established as a fire protection material worldwide. Advances in glass products and manufacturing technology mean that today's range of fire resistant glasses offer the architect and specifier the ability to create a beautiful and safe environment for all of us. At first glance it would seem that glass is not the ideal material for forming a barrier to fire. It has a reputation for being fragile and unable to cope with localised stresses. So, although it is incombustible and makes no contribution to the fire itself, on exposure to heat it breaks at relatively low temperatures, falling from its framing and allowing the passage of fire.

By selecting one of our fire resistant glasses these natural tendencies can be fully overcome.

Please find on the reverse a guide to selecting fire resistant glass:

| Step | Requirement | Option | Solution |
|------|-------------------------------------------|----------|----------------------------------|
| 0 | Vertical Glazing | Go to 1 | |
| | Sloping or horizontal glazing | Go to 13 | |
| 1 | Integrity only required | Go to 2 | |
| | Insulation and integrity required | Go to 10 | |
| 2 | Period of fire resistance – 30 mins | Go to 3 | |
| | Period of fire resistance – 60 mins | Go to 7 | |
| | Period of fire resistance – 90 mins | Go to 8 | |
| | Period of fire resistance – 120 mins | Go to 8 | |
| 3 | Wires are acceptable | Go to 4 | |
| | Unwired glass required | | 10mm Pyrodur |
| 4 | Safety glass is required for the location | Go to 5 | |
| | Safety glass is not required | Go to 6 | |
| 5 | Clear Vision is required | | Pyroshield safety clear |
| | Obscuration is required | | Pyroshield safety texture |
| 6 | Clear Vision is required | | Pyroshield clear |
| | Obscuration is required | | Pyroshield texture |
| 7 | Wires are acceptable | Go to 4 | |
| | Unwired glass required | | 14mm Pyrodur |
| 8 | Timber frames | | Not possible |
| | Steel frames | Go to 9 | |
| 9 | Wires are acceptable | Go to 5 | |
| | Unwired glass required | Go to 10 | |
| 10 | Period of fire resistance – 30 mins | | 15mm Pyrostop ** |
| | Period of fire resistance – 60 mins | | 21mm Pyrostop ** |
| | Period of fire resistance – 90 mins | Go to 11 | |
| | Period of fire resistance – 120 mins | Go to 12 | |
| 11 | Timber frames | | Not possible |
| | Steel frames | | 44mm Pyrostop insulating unit ** |
| 12 | Timber frames | | Not possible |
| | Steel frames | | 50mm Pyrostop insulating unit ** |
| 13 | Period of fire resistance – 30 mins | Go to 14 | |
| | Period of fire resistance – 60 mins | | 28mm Horizontal Pyrostop |
| | Period of fire resistance – 90 mins | | Not possible |
| | Period of fire resistance – 120 mins | | Not possible |
| 14 | Integrity only required | | Pyroshield Insulating unit |
| | Insulation and integrity required | | 22mm Horizontal Pyrostop* |

* Horizontal version is either 15 or 21mm Pilkington Pyrostop with 6mm Pilkington Toughened Safety Glass laminated to the upper surface.
For internal applications only

** External grade Pilkington Pyrostop must be used if daylight or sunlight can strike the glass.