

# 10mm fire resistance tempered glass--Advanced in fire-rated glazings

Fire resistant glass can slow the spread of high heat and flames for a specific period of time through partition walls or curtain walls. During a fire, stress caused by uneven heating on regular annealed glass results in quick breakage. Fire-rated glass is engineered to be insensitive to high temperatures and is tested to meet a specific minute ratings that quantify how long it can withstand breakage during a fire. Fire glass is typically rated between 30 and 180 minutes. A well-selected integration of fire rated glass can effectively contain the effect of fire, with the result of great protection for building inhabitants during an evacuation and less structural damage.

## Types of fire rated glass:

1. Single layer fire rated glass( C grade fire glass)

Thickness: 5mm 6mm 8mm 10mm 12mm 15mm

Fire proof time: 30mins to 180 mins

SGG SINGLE LAYER FIRE RESISTANCE GLASS				
Thickness	Performance	Fire Proof Time (Mins)	Weight (KG/SQM)	Fire Resistant Temperature (°C)
5	Class C Fire Glass	30;60;90	12.5	≥1000
6	Class C Fire Glass	30;60;90;120	15	≥1000
8	Class C Fire Glass	30;60;90;120;180	20	≥1000
10	Class C Fire Glass	30;60;90;120	25	≥1000
12	Class C Fire Glass	30;60;90;120	30	≥1000
15	Class C Fire Glass	30;60;90;120;180	37.5	≥1000

2. Double layer fire rated glass(A grade fire glass)

Thickness: 16mm 20mm 26mm 30mm 36mm 60mm

Fire insulation time: 30min to 180 mins

SGG DOUBLE LAYER FIRE RESISTANCE GLASS						
Thickness	Performance	Fire Insulation Max Time(Mins)	Weight (KG/SQM)	Fire Side Temperature(°C)	Opposit Fire Side Temperature(°C)	Sound Insulation
60±2.0	A3.00 super Grade	180	≈80	1113	< 129	≈60
36±2.0	A2.00 I Grade	120	≈55	1060	< 140	≈60
30±1.5	A1.50 I Grade	90	≈50	1017	< 120	≈55
26±1.5	A1.50 I Grade(A CLASS)	60; 90	≈45	1017	< 120	≈55
20±1.3	A1.00 I Grade(B CLASS)	45; 60	≈35	939	< 100	≈35
16±1.0	A0.50 IV Grade	30; 46	≈30	920	< 140	≈35

## 10MM Monolithic Fireproof Glass Features:

1.Fire resistant time: 30 minutes, 60 minutes, 90 minutes, 120 minutes

2.Can withstand up to 1000°C flame with a specific time, to keep glass complete, not broken or enclosure.

3.10MM fire rated tempered glass, not only has good performance on fire resistant, but also has all advantage for 10mm tempered glass, even higher than 10mm toughened glass. Such as: the hardness,

10mm fireproof glass is 2-3 times than [10mm tempered glass](#), and 6-12 times than [10mm float glass](#).

4. When the 10mm fire rated glass broken, its fragment is small cube, that can max reduce the harmful to human being.

5. 10mm monolithic fire proof glass are customized orders, can be ordered by standard size.

6. Processing services: drill holes, cut out, cut notches, polished edges, etc, same features with tempered glass, can not process after finish.



### **Glass Application:**

10mm Fire rated glass can be applied to glass doors, glass windows, glass partitions on schools, hospitals, shopping malls, hotels, and other public places.