

Safety marking SECURIT-H

New: SGG SECURIT®-H Now with proof for tested monolithic safety glass

SGG SECURIT®-H is a monolithic safety glass, which is tested in accordance with the new standard for Heat-Soak-Testing. The tendency of the so-called spontaneous breakage is towards nil. This is above all facade glazing, overhead glazing and guarding glass most important. The obvious, Patent pending coloured marking in the SECURIT®-Stamp proves that the glass has undergone the Heat-Soak Process.

New Marking as Quality stamp

Because Heat-Soak tested glass is not visibly different from conventional Fully Tempered glass, the SECURIT-PARTNER® companies have developed their own „HST-Marker“, to give visible proof of the test. Prior to the heat-soaking, a blue point is stamped onto the glass which changes colour to brown-beige if it has been tested under the prescribed conditions. At higher temperatures it changes to a powder which breaks away from the glass. Falsifying the marking prior to the test is therefore not possible.

Risk of Spontaneous breakage

In recent years Fully tempered glass has been the subject of many discussions. The main reason for this being spectacular spontaneous breakages, whereby Fully Tempered sheets of glass shattered without any known external influence. Spontaneous breakage can occur through high temperature changes for example when facades are subject to strong sunshine. Inclusions in the glass in the form of Nickel sulphide crystals increase their volume by about 4 % and shatter the glass when they lie in the tension zone. Th prescribed

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testing method to date has not been able to completely eliminate the risk of spontaneous breakage.

A new Test: Heat soaking

The statutorily prescribed new and more intensive Heat Soak Test almost entirely eliminates spontaneous breakage. The Fully Tempered sheets of glass are transported into a heat-soaking chamber. Special transport methods ensure that edges are not damaged during this process. In extremely slow steps, the chamber temperature is increased - maximum 2° C per minute, until the glass mass has reached a temperature of at least 280° C. The glass remains at least four hours in the chamber, whereby the temperature is not allowed to fall below 280° C nor rise above 320° C. Following the heat-soaking, the edges of the glass are checked for visible damage and sorted out when the damage is deeper than 5 % of the glass thickness. The non-damaged glass sheets receive a control stamp after this procedure.

Safety guarantee for heat-soaking through certification

All SECURIT-PARTNER® companies have the prescribed and necessary certification for heat-soaking. That means that each chamber is independently monitored and the companies take in-house production controls. The data from the manufacture of every single Fully Tempered sheet is archived for at least ten years with control tests being carried out every quarter. The SECURIT-PARTNER® companies gladly accept the inclusion of heat-soak tested Fully Tempered glass in the Building regulations 2002/1 and are sure that with products such as SGG SECURIT®-H Fully Tempered safety glass can again be installed without any problems.

(Source: SECURIT-PARTNER, www.securit-partner.de)