

# SFL.glass

GLASS WITHOUT LIMIT





# GLASS TECHNOLOGY AT SFL

SFL was founded in 1988 and currently employs 600 collaborators in locations in Austria, Hungary and Rumania across eight different fields.

The glass-technology-center of SFL was founded in 2010 and is located in St. Marein im Mürztal. SFL offers a wide product range including high quality bended, solidified or surface-coated glass products and systems for interior and exterior use.

Nine bending furnaces and other innovative glass-coating systems refine glass formats of up to 6,0 x 3,2 meters (19,7 x 10,5ft.). With the chemical toughening process in one of the largest facilities 7,1 x 2,4 x 3,6 meters (23,3 x 7,9 x 11,8 ft.) worldwide, SFL is able to offer a flexural strength of up to 500MPa. SFL with its glass-technologies is striving to custom make high quality facades and singular products.

SFL supports executing companies such as facade construction contractors, partition manufacturers, carpenters etc. in consultation, planning, sampling, implementation and production. SFL also collaborates with expert planners, architects and designers to create aesthetic, unique and outstanding glass products. SFL works independently of other glass production and coating companies by drawing on own expertise and the vast repertoire of glass-processing methods, which are constantly innovated within the company.

2016 SFL has co-founded the 1<sup>st</sup> research center for thin-glass (thickness <3mm), the Josef-Ressel-Center, which is located at the Science-Tower in Graz.



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# STARFLEX

## BENT GLASS

STARFLEX is curved glass created through thermal forming of flat glass. In the gravitational bending process the base glass is heated to close to its softening point (approx. 600 °C), shaped on concave or convex bending moulds and then cooled under controlled conditions. The base glass is float glass compliant with EN 572, in clear, colourless (= low iron oxide), bronze, grey, pink, green or blue colours. The individual bending technology enables the high optical quality of STARFLEX.

## DIMENSIONS AND SHAPES

STARFLEX can be produced in varying shapes in the following maximum dimensions:

Max. dimensions: 3.210 mm x 6.000 mm  
Max. arch rise: 1.800 mm  
Min. radius: 50 mm

## TRANSFORMED PRODUCTS

STARFLEX is a single-pane glass and can be further processed to SAFEGLASS (LSG), DUROGLASS<sup>®</sup>-CTG (chemically toughened glass) or CLIMAX (multi-pane insulating glass). Further processing depends on the base glass used (float clear, colourless, solid-coloured and/or coated), the shaping geometry and the additional functions demanded, such as safety, protection from heat and sun, or noise dampening. Additional later CONDECO<sup>®</sup> colour coatings and matt surfaces through CONFLO<sup>®</sup> sandblasting, for instance, are also available.

## APPLICATIONS

STARFLEX is suited for many interior and exterior applications, e.g.:

- façade glazing, windows
- elevator glazing
- winter gardens
- partitions, balustrades
- display cabinets, counters

## NOTE

STARFLEX is not generally a regulated building product. This means that building regulatory requirements governing a specific application must be coordinated with the relevant building supervisory boards. Based on many years of project experience, SFL can meet all building regulatory requirements.



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**DE** SFL wurde im Jahr 1988 in Graz gegründet. Heute beschäftigt die SFL 600 Mitarbeiter an Standorten in Österreich, Ungarn und Rumänien in acht verschiedenen Fachbereichen.

Das Glas-Technologie-Zentrum in St. Marein im Mürztal entwickelt, plant und produziert Gläser nach Kundenwunsch - vor allem Biegen, Formen und Härten von grossformatige Gläser 6 x 3,21m werden als Speziallösungen für Innen- und Aussenanwendungen wie Fassadenbau, als Glaswände und Yachtverglasungen angeboten.

**EN** SFL was founded 1988 in Graz, AUSTRIA. Today SFL employs 600 people in Austria, Hungary and Romania which are working in eight different fields of expertise.

The glass-technology-center located in St. Marein is developing, planning and producing customized glasses - bending, shaping and toughening of larged-scaled glasses up to 6 x 3,21m for indoor as well as outdoor applications like facades or glass-wall or as yachting-glasses are offered. With the chemical toughening processing, SFL is operating the largest facility in Europe.