Glass Processing
Reliable processes, good quality, solid profit: LiSEC solutions provide flat glass processors around the world with security and drive in a challenging environment.

For the last 50 years, we have been working hard to enable you to sustainably boost the efficiency, the system availability and the quality output of your flat glass production process. Thanks to forward-looking thinking, continuously striving to find the best solution and a great deal of personal commitment from our employees, we have grown from a one-man company to a technology leader.

Our advanced solutions generate a great cost-to-benefit ratio throughout the entire lifecycle of your machines and systems.

Customers around the world can benefit from this: be they experienced manufacturers or newcomers to the industry; from family businesses to industrial glass processors.

Three main factors are essential for long-term success:

1. Turn Key Solutions
   Everything from a single source including software. Customers benefit from the only company in the flat glass machine industry that can comprehensively plan and develop large projects – also thanks to the widest product range in the industry.

2. Excellent Service
   Investment security and the highest availability and productivity enable the large, global LiSEC service network. A contact person familiar with the local language and customs is available close to you.

3. Performance through software integration
   Integration of the production management software and the machinery control (digitalization/Industry 4.0) allows top operation and optimization of all integrated machines or whole glass factories.

The benefits:

- Over 50 years of partnership, pioneering spirit and stability
- Investment security due to the size of our company
- Leading technology with a high resale value
- Great cost-to-benefit ratio throughout the entire system lifecycle

Facts and figures:

- 1961 founding year
- 1 strong brand
- 1,300 employees
- 25 sites
- 230 million Euros turnover (2017)
- 95% export rate
- 7% of turnover for R&D
- more than 330 patents
Glass Processing

Table of Contents

Insulating glass
- Eurotherm
  Insulating Glass
- Europhon
  Insulating Glass
- Eurosol
  Solar Insulating Glass

Insulating Glass with Integrated Blinds
- Eurotherm IGS
  Insulating Glass

Safety Glass
- Eurodur® / Eurosafe LSG
  Safety Glass

Glass Processing
- Glass Processing

print
- LiSEC Eurocolor / LiSEC Europrint

References
- Reference Projects

Competence Center
- LiSEC Glass Forum
  Competence Center for research, production and training in the field of flat glass processing
The company Glastech started manufacturing insulating glass early on. By 1968, the technology behind the relatively new product, insulating glass, had become so sophisticated that an own system with its own trademark was launched and patented.

Since then, the product insulating glass has developed in a way that it now meets all fundamental requirements of buildings, thanks to advanced technologies.

- Heat insulation
- Sound insulation
- Protection against injury
- Solar control
- Burglar resistance

Eurotherm insulating glass® is thermal insulation glass from LiSEC. Its most important component is the highly heat-insulating ultra-thin stainless steel coating. In addition, an inert gas-filled space separating the sheets, as well as an optimum distance between the glass sheets ensure maximum heat insulation. As a rule of thumb, the lower the U value achieved, the better the level of heat insulation.

Coatings not only significantly influence heat insulation, but also let most of the sunlight enter your home in winter, where it contributes, for free, to heating your home. In this way, Eurotherm insulating glass® generates passive solar gain. As a rule of thumb, the higher the g value, the higher the passive solar gain.

However, thermal insulation glass not only benefits the environment and your wallet, it also increases home comfort: the lower the U value, the higher the temperature of the interior glass surface will be when it is cold outside. Unpleasant draught is minimised.

The Ug value *

The Ug value is the most important figure with regard to insulating glass: the lower the Ug value, the lower the heat loss of insulating glass. This results in higher temperatures of the interior glass surface and offers both economical and ecological advantages – at any time, no matter whether day or night.

* according to DIN EN 673

Eurotherm insulating glass® can also be combined with noise and solar control functions.

---

**Technical data**

<table>
<thead>
<tr>
<th>Product</th>
<th>Colour</th>
<th>Visible Light</th>
<th>Solar Energy</th>
<th>U-Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Trans. (%)</td>
<td>Reflect. (%)</td>
<td>Direct. (%)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Refl. (%)</td>
<td>Inside (%)</td>
<td>Absorp. (%)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Colour</td>
<td>En 410</td>
<td>Shading Coeff.</td>
</tr>
<tr>
<td>Eurotherm E3</td>
<td>neutral</td>
<td>82</td>
<td>12</td>
<td>98</td>
</tr>
<tr>
<td>Eurotherm E1</td>
<td>neutral</td>
<td>70</td>
<td>20</td>
<td>98</td>
</tr>
</tbody>
</table>

**EUROTHERM - The modern standard in thermal protection**

Double Glazing 4-16-4, Low-E on surface #2

The performance values shown are nominal and subject to variations due to manufacturing tolerances.

Spectra-photometric values according to EN 410; U-value according to EN 673
Eurotherm insulating glass® can be combined with safety glass (tempered, laminated) and solar control glass.
Europhon
Insulating Glass

Heat insulation and noise protection

Europhon insulating glass takes care of your health and improves your well-being. Its sound insulation performance of up to 52 dB turns noise into a whisper and solves the noise problem in a very efficient way.

By adding sound insulation properties to Eurotherm heat insulation glass, Ug values down to 0.5 W/m²K are possible.

Europhon insulating glass is particularly interesting for use in windows, facades and conservatories of buildings located in areas with a high traffic volume or close to other noise sources. We offer a highly diverse range of products to perfectly suit your needs.

In certain combinations Europhon insulating glass offers another important benefit: SAFETY

- Safety is based on the technology of special laminated safety glass with a highly tear-resistant PVB film (polyvinylbutyral), which offers excellent sound insulation properties along with protection against injury if the glass breaks. In this case, splinters and glass pieces will adhere to the film.
- Since Europhon insulating glass can be manufactured according to the relevant standards, it can also be used in roof and sloping glazing without any problem.

In addition, there are many ways of combining Europhon insulating glass with solar glass.

Technical data

<table>
<thead>
<tr>
<th>Product</th>
<th>Colour</th>
<th>Visible Light</th>
<th>Solar Energy</th>
<th>U-Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Transmission</td>
<td>Reflection</td>
<td>Solar</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(%)</td>
<td>(%)</td>
<td>(%)</td>
</tr>
<tr>
<td>Europhon 26/26</td>
<td>neutral</td>
<td>81</td>
<td>12</td>
<td>13</td>
</tr>
<tr>
<td>Europhon 32/38</td>
<td>neutral</td>
<td>81</td>
<td>13</td>
<td>13</td>
</tr>
<tr>
<td>Europhon 32/40</td>
<td>neutral</td>
<td>80</td>
<td>12</td>
<td>13</td>
</tr>
<tr>
<td>Europhon 34/42</td>
<td>neutral</td>
<td>81</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>Europhon 34/45</td>
<td>neutral</td>
<td>81</td>
<td>15</td>
<td>15</td>
</tr>
</tbody>
</table>

The performance values shown are nominal and subject to variations due to manufacturing tolerances.
Spectra-photometric values according to EN 410; U-value according to EN 673
Europhon insulating glass® can be combined with safety glass (tempered, laminated) and solar control glass.
Eurosol

Solar Insulating Glass

Thermal insulation and solar control

Facades give buildings their visual appearance. LiSEC Eurosol® solar insulating glass allows optimal designs combined with all of the functions needed, such as noise protection.

Solar control glass is intended to maximise the penetration of natural daylight, so-called light transmission (LT), and to reduce total energy transmittance (g value) to a minimum. The purpose of solar control glass is to avoid that rooms warm up or, more specifically, to slow down the warming process, which is made possible by a number of different coatings.

The Central European climate is characterised by marked differences between winter and summer temperatures with no periods of extreme weather. This is why LiSEC Eurosol® glass can reduce heat gain in rooms exposed to sunlight, whilst at the same time maximising heat insulation. At the bottom line, Eurosol glass makes sure that the cold stays where it belongs.

Apart from the benefits mentioned above, LiSEC Eurosol® glass can also be combined with other functions, such as noise control and higher impact resistance.

In order to meet all architectural and safety-related requirements, LiSEC Eurosol® solar control glass is also available as LiSEC Eurodur® tempered safety glass (TSG) as well as Eurosafel laminated safety glass (LSG).

<table>
<thead>
<tr>
<th>Technical data</th>
<th>Visible Light</th>
<th>Solar Energy</th>
<th>U-Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Colour</td>
<td>Transmission</td>
<td>Reflection outside</td>
<td>Reflection inside</td>
</tr>
<tr>
<td>(%) (%) (%) (%) (%) (%)</td>
<td>(%)</td>
<td>(%)</td>
<td>(%)</td>
</tr>
<tr>
<td>EUROSOL SOLAR - The modern standard in solar protection</td>
<td>Double Glazing 6-16-4, Solar Control Coating on surface #2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Silver 08 | silver | 8 | 43 | 34 | 99 | 7 | 35 | 58 | 12 | 0.14 | 2.0 | 1.8 |
| Grey 20 | dark grey | 19 | 10 | 9 | 97 | 16 | 11 | 73 | 23 | 0.26 | 2.2 | 2.1 |
| Gold 20 | gold | 21 | 24 | 15 | 94 | 16 | 18 | 66 | 22 | 0.25 | 2.0 | 1.9 |
| Bronze 20 | bronze | 20 | 18 | 16 | 94 | 14 | 20 | 66 | 20 | 0.23 | 2.1 | 1.9 |
| Green 20 | bright green | 19 | 35 | 16 | 97 | 15 | 19 | 66 | 20 | 0.23 | 2.1 | 2.0 |
| Silver 20 | silver | 20 | 35 | 25 | 88 | 15 | 33 | 52 | 20 | 0.23 | 2.2 | 2.1 |
| Royal Blue 20 | deep blue | 20 | 18 | 36 | 96 | 17 | 18 | 65 | 23 | 0.26 | 2.2 | 2.0 |
| Silver Grey 32 | light grey | 30 | 23 | 22 | 80 | 23 | 20 | 57 | 29 | 0.33 | 2.4 | 2.2 |
| Light Blue 32 | neutral blue | 47 | 15 | 17 | 94 | 43 | 13 | 49 | 44 | 0.51 | 2.5 | 2.4 |
| Neutral 06 | neutral | 56 | 26 | 18 | 97 | 49 | 19 | 33 | 53 | 0.61 | 2.6 | 2.5 |
### Technical Data

#### Visible Light Solar Energy

<table>
<thead>
<tr>
<th>Product</th>
<th>Colour</th>
<th>Trans-mission (%)</th>
<th>Reflection outside (%)</th>
<th>Reflection inside (%)</th>
<th>Colour rendring index (%)</th>
<th>Direct transmission (%)</th>
<th>Reflection outside (%)</th>
<th>Absorption (%)</th>
<th>Solar Factor (g)</th>
<th>EN 410</th>
<th>Shading Coefficient</th>
<th>U-Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUROSOL SOLAR plus - The modern standard in solar protection plus energy saving</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Silver 08</td>
<td>silver</td>
<td>8</td>
<td>43</td>
<td>31</td>
<td>99</td>
<td>6</td>
<td>35</td>
<td>59</td>
<td>9</td>
<td>0,11</td>
<td>1,4</td>
</tr>
<tr>
<td></td>
<td>Grey 20</td>
<td>dark grey</td>
<td>19</td>
<td>10</td>
<td>7</td>
<td>96</td>
<td>13</td>
<td>11</td>
<td>76</td>
<td>18</td>
<td>0,20</td>
<td>1,4</td>
</tr>
<tr>
<td></td>
<td>Gold 20</td>
<td>gold</td>
<td>21</td>
<td>24</td>
<td>12</td>
<td>93</td>
<td>14</td>
<td>19</td>
<td>68</td>
<td>18</td>
<td>0,20</td>
<td>1,4</td>
</tr>
<tr>
<td></td>
<td>Bronze 20</td>
<td>bronze</td>
<td>19</td>
<td>17</td>
<td>14</td>
<td>94</td>
<td>12</td>
<td>20</td>
<td>68</td>
<td>16</td>
<td>0,18</td>
<td>1,4</td>
</tr>
<tr>
<td></td>
<td>Green 20</td>
<td>bright green</td>
<td>19</td>
<td>35</td>
<td>14</td>
<td>97</td>
<td>12</td>
<td>19</td>
<td>69</td>
<td>16</td>
<td>0,19</td>
<td>1,4</td>
</tr>
<tr>
<td></td>
<td>Silver 20</td>
<td>silver</td>
<td>19</td>
<td>34</td>
<td>22</td>
<td>88</td>
<td>13</td>
<td>33</td>
<td>54</td>
<td>17</td>
<td>0,19</td>
<td>1,4</td>
</tr>
<tr>
<td></td>
<td>Royal Blue 20</td>
<td>deep blue</td>
<td>20</td>
<td>18</td>
<td>33</td>
<td>96</td>
<td>14</td>
<td>19</td>
<td>67</td>
<td>18</td>
<td>0,21</td>
<td>1,4</td>
</tr>
<tr>
<td></td>
<td>Silver Grey 32</td>
<td>light grey</td>
<td>29</td>
<td>22</td>
<td>19</td>
<td>90</td>
<td>19</td>
<td>21</td>
<td>60</td>
<td>23</td>
<td>0,27</td>
<td>1,4</td>
</tr>
<tr>
<td></td>
<td>Light Blue 52</td>
<td>neutral blue</td>
<td>47</td>
<td>14</td>
<td>15</td>
<td>94</td>
<td>31</td>
<td>15</td>
<td>54</td>
<td>36</td>
<td>0,41</td>
<td>1,4</td>
</tr>
<tr>
<td></td>
<td>Neutral 60</td>
<td>neutral</td>
<td>55</td>
<td>25</td>
<td>15</td>
<td>97</td>
<td>38</td>
<td>24</td>
<td>38</td>
<td>43</td>
<td>0,50</td>
<td>1,4</td>
</tr>
</tbody>
</table>

The performance values shown are nominal and subject to variations due to manufacturing tolerances. Spectra-photometric values according to EN 410; U-value according to EN 673.

---

#### EUROSOL SOLAR - The modern standard in solar protection plus next generation of energy saving

<table>
<thead>
<tr>
<th>Product</th>
<th>Colour</th>
<th>Trans-mission (%)</th>
<th>Reflection outside (%)</th>
<th>Reflection inside (%)</th>
<th>Colour rendring index (%)</th>
<th>Direct transmission (%)</th>
<th>Reflection outside (%)</th>
<th>Absorption (%)</th>
<th>Solar Factor (g)</th>
<th>EN 410</th>
<th>Shading Coefficient</th>
<th>U-Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUROSOL SOLAR MONO</td>
<td>Solar Control Single Glass, 6 mm, coating on surface #2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Silver 20</td>
<td>silver</td>
<td>20</td>
<td>33</td>
<td>25</td>
<td>92</td>
<td>17</td>
<td>28</td>
<td>55</td>
<td>29</td>
<td>0,33</td>
<td>4,9</td>
</tr>
<tr>
<td></td>
<td>Royal Blue 20</td>
<td>deep blue</td>
<td>23</td>
<td>20</td>
<td>29</td>
<td>98</td>
<td>19</td>
<td>20</td>
<td>61</td>
<td>31</td>
<td>0,35</td>
<td>4,7</td>
</tr>
<tr>
<td></td>
<td>Silver Grey 32</td>
<td>light grey</td>
<td>33</td>
<td>21</td>
<td>19</td>
<td>95</td>
<td>30</td>
<td>17</td>
<td>53</td>
<td>41</td>
<td>0,47</td>
<td>5,2</td>
</tr>
<tr>
<td></td>
<td>Light Blue 52</td>
<td>neutral blue</td>
<td>52</td>
<td>17</td>
<td>15</td>
<td>98</td>
<td>47</td>
<td>13</td>
<td>40</td>
<td>56</td>
<td>0,65</td>
<td>5,5</td>
</tr>
<tr>
<td></td>
<td>Neutral 67</td>
<td>neutral</td>
<td>66</td>
<td>16</td>
<td>18</td>
<td>99</td>
<td>63</td>
<td>13</td>
<td>24</td>
<td>68</td>
<td>0,79</td>
<td>5,7</td>
</tr>
<tr>
<td></td>
<td>Silver 70</td>
<td>silver</td>
<td>70</td>
<td>27</td>
<td>28</td>
<td>96</td>
<td>71</td>
<td>21</td>
<td>8</td>
<td>72</td>
<td>0,83</td>
<td>5,6</td>
</tr>
<tr>
<td></td>
<td>Sunergy Light</td>
<td>neutral-clear</td>
<td>68</td>
<td>9</td>
<td>10</td>
<td>97</td>
<td>54</td>
<td>9</td>
<td>37</td>
<td>60</td>
<td>0,69</td>
<td>4,1</td>
</tr>
<tr>
<td></td>
<td>Sunergy Dark Blue</td>
<td>deep blue</td>
<td>40</td>
<td>6</td>
<td>9</td>
<td>78</td>
<td>26</td>
<td>6</td>
<td>64</td>
<td>37</td>
<td>0,43</td>
<td>4,1</td>
</tr>
<tr>
<td></td>
<td>Sunergy Green</td>
<td>green</td>
<td>56</td>
<td>7</td>
<td>10</td>
<td>88</td>
<td>31</td>
<td>6</td>
<td>63</td>
<td>41</td>
<td>0,47</td>
<td>4,1</td>
</tr>
<tr>
<td></td>
<td>Sunergy Grey</td>
<td>grey</td>
<td>34</td>
<td>5</td>
<td>9</td>
<td>95</td>
<td>30</td>
<td>6</td>
<td>64</td>
<td>41</td>
<td>0,47</td>
<td>4,1</td>
</tr>
<tr>
<td></td>
<td>Sunergy Azure</td>
<td>azure</td>
<td>56</td>
<td>7</td>
<td>10</td>
<td>88</td>
<td>34</td>
<td>6</td>
<td>60</td>
<td>44</td>
<td>0,51</td>
<td>4,1</td>
</tr>
<tr>
<td></td>
<td>Metallic Klar</td>
<td>slightly blue</td>
<td>62</td>
<td>34</td>
<td>35</td>
<td>96</td>
<td>63</td>
<td>24</td>
<td>13</td>
<td>66</td>
<td>0,76</td>
<td>5,7</td>
</tr>
<tr>
<td></td>
<td>Supersilver Dark Blue</td>
<td>dark blue</td>
<td>40</td>
<td>17</td>
<td>34</td>
<td>85</td>
<td>29</td>
<td>12</td>
<td>59</td>
<td>43</td>
<td>0,49</td>
<td>5,7</td>
</tr>
<tr>
<td></td>
<td>Supersilver Green</td>
<td>metallic steel</td>
<td>29</td>
<td>11</td>
<td>34</td>
<td>95</td>
<td>34</td>
<td>10</td>
<td>56</td>
<td>47</td>
<td>0,54</td>
<td>5,7</td>
</tr>
<tr>
<td></td>
<td>Supersilver Green</td>
<td>bright green</td>
<td>51</td>
<td>24</td>
<td>35</td>
<td>93</td>
<td>32</td>
<td>13</td>
<td>55</td>
<td>45</td>
<td>0,52</td>
<td>5,7</td>
</tr>
<tr>
<td></td>
<td>SilverLight PrivilBlue</td>
<td>vivid blue</td>
<td>27</td>
<td>8</td>
<td>24</td>
<td>64</td>
<td>16</td>
<td>7</td>
<td>77</td>
<td>34</td>
<td>0,39</td>
<td>5,7</td>
</tr>
<tr>
<td></td>
<td>Classic Bronze</td>
<td>metallic bronze</td>
<td>26</td>
<td>15</td>
<td>34</td>
<td>85</td>
<td>35</td>
<td>14</td>
<td>51</td>
<td>48</td>
<td>0,55</td>
<td>5,7</td>
</tr>
</tbody>
</table>

The performance values shown are nominal and subject to variations due to manufacturing tolerances. Spectra-photometric values according to EN 410; U-value according to EN 673.

Note: Above mentioned coating types can be combined with Insulating Glass - Performance Date on request!
Depending on configuration, U-value till 1.0 can be reached.

---

The performance values shown are nominal and subject to variations due to manufacturing tolerances. Spectra-photometric values according to EN 410; U-value according to EN 673.
## Technical Data

<table>
<thead>
<tr>
<th>Product</th>
<th>Colour</th>
<th>Transmission</th>
<th>Reflection outside</th>
<th>Reflection inside</th>
<th>Colour rendering index</th>
<th>Direct Transmission</th>
<th>Absorption</th>
<th>Solar Factor (g)</th>
<th>Shading Coefficient</th>
<th>U-Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>(%)</td>
<td>(%)</td>
<td>(%)</td>
<td>(%)</td>
<td>(%)</td>
<td>(%)</td>
<td>(%)</td>
<td>(%)</td>
<td>(%)</td>
</tr>
</tbody>
</table>

### EUROSOL HP - The all season solution, solar protection & thermal insulation combined
- Double Glazing 6-16-4, High Performance Solar Control Coating on surface #2

### Standard Glass Types
- 6 mm Float clear
- 6 mm UltraClear
- 8 mm semi matt clear

### Note:
- Above mentioned coating types can be combined with Insulating Glass - Performance Data on request!
- Depending on configuration, U-value till 1.0 can be reached.

### The performance values shown are nominal and subject to variations due to manufacturing tolerances. Spectra-photometric values according to EN 410; U-value according to EN 673
INSULATING GLASS WITH INTEGRATED BLINDS
Eurotherm IGS

Insulating Glass

Thermal insulation with integrated sun protection

As opposed to thermal insulation and solar control glass with permanent functions, Eurotherm insulating glass® IGS insulated glazing performs an active function using variable adjustable blade reflectors. In this way, the interior can be perfectly adjusted to suit weather conditions and solar radiation.

Glass, shading and light control, combined into one system

Eurotherm insulating glass® IGS provides a pleasant shade, controls light levels and protects you from prying eyes in residential, industrial and commercial areas.

The following types of Eurotherm insulating glass® IGS are available:
- Fixed louvre system
- Manually / electrically movable louvre system

Eurotherm insulating glass® IGS is available up to a size of 2000 x 3500 mm to meet the architectural requirements. Larger sizes are possible in individual cases.

Whether controlled by means of a bus system or a timer, electric louvre systems offer a series of control options that leave no wish unfulfilled.

Eurotherm insulating glass® IGS is well suited to many different applications, from conservatories, glass façades and shop windows to swimming pools, etc. Louvre systems require no maintenance, do not become dirty, and do not cause noise in windy conditions.
SAFETY GLASS
Eurodur® / Eurosafe LSG

Safety Glass

Eurodur® TSG (tempered safety glass)

Eurodur® tempered safety glass from Glastech is up to five times stronger than ordinary glass of the same thickness. For architects and builders, the high resistance of Eurodur® safety glass opens up new ways of using glass in buildings. Eurodur® meets the worldwide standards for safety glass and is the right choice if you want to combine the benefits of ordinary glass with maximum strength, safety and heat resistance.

Heat-soak tested Eurodur® tempered safety glass is particularly suitable for applications where the risk of sudden breakage should be minimised, such as in supporting structures, barriers or glazed roofs.

Eurodur® tempered safety glass is manufactured by heating it to temperatures exceeding 600 °C until it softens, and quenching it with cold air, causing a balanced state of tension inside the glass: through quenching, the surface becomes hard whereas inside the glass is still hot.

The hard surface avoids that the glass contracts any further. As a result, tensile stress develops inside the glass, whereas compressive stress is present in the surface. The moment the tension becomes unbalanced, the tensile stress emerges to the surface, causing the glass to suddenly break into many dull ‘glass crumbs’, held together more or less loosely by a net. Unbalanced tension can be caused, for instance, by damage to the edges or surface.

Eurosafe LSG (laminated safety glass)

There is a great variety of ways of using glass in buildings and protecting people from injury while offering light, friendly and open designs. Glastech provides a wide range of tempered and laminated safety glass products for maximum protection against injury but without having to sacrifice natural light.

LiSEC Eurosafe laminated safety glass from Glastech is made up of two or more glass sheets bonded together by a plastic interlayer (PVB film). In this way, Eurosafe can withstand many kinds of deliberate attacks.

Another important field where Glastech relies on state-of-the-art technology is glass processing: from grinding and polishing right through to vertical waterjet cutting using the most advanced high-precision machines.
Glass Processing

Glass processing is an important element in the manufacture of glass. Be it all-glass constructions, point-fixed glazing, glass cabinets or simply stepped edge insulating glass units – professional processing is indispensable. This is why LiSEC uses the most advanced vertical waterjet cutting system for glass processing, along with standard processing machinery for grinding and polishing.

The following processing types are possible:

- Edge processing (grinding, polishing)
- Bevel grinding
- Holes
- Corner and edge cutting
- Round corners

Since offering our customers special solutions is the aim of LiSEC, please get in touch with us if the machining process needed to meet your expectations and desires is not mentioned above.

Perfect shape cut made by waterjet
Straight or shape cutting of very thick laminated glass
Seaming of cut edges
Sinking of holes on both sides
LiSEC Eurocolor / LiSEC Europrint

LiSEC Eurocolor®

LiSEC Eurocolor® is tempered safety glass that is screen printed with ceramic colours. During the tempering process the colours are burnt into the glass at 650 °C, forming a permanent bond with the glass. LiSEC Eurocolor® is weather, abrasion and scratch-proof, resistant to acids and alkaline solutions, as well as UV, temperature and impact-resistant. The variety of LiSEC Europrint® is almost unlimited.

Applications

LiSEC Eurocolor® can be used both inside and outside and is suitable, for example, for balustrades, balconies, wall coverings, partition walls, screens and signs. In addition, LiSEC Eurocolor® can be combined with Eurotherm insulating glass.

Available colours

Currently, 17 standard colours are available. These do not fully reflect RAL colours, which is due to the natural colour of glass and the production process. Besides, it is possible to custom mix a wide range of colours within the technical limits given.

LiSEC Europrint®

LiSEC Europrint® is a new way of printing glass. A special digital printing system prints single or multi-coloured designs from ceramic colours with up to 360x360 dpi onto glass. After printing, the colours are burnt into the glass at 650 °C. LiSEC Europrint® offers the same characteristics as LiSEC Eurocolor® with regard to mechanical strength.

However, LiSEC Europrint® provides the additional benefit of creating single and continuous designs with high precision, minimum tolerances and in pin-sharp quality.
HUD Tower
- Location: Hanoi, Vietnam
- Product: Approx. 14,000 sqm Insulating Glass with Solar Control Low-E Coating

"Alter Leipziger" Insurance & Finance
- Location: Oberursel, Germany
- Product: Approx. 7,000 sqm Insulating Glass with Low-E Coating and Integrated Electrical Blind System, Spandrell Units

Gate2
- Location: Vienna, Austria
- Product: Approx. 7,000 sqm Insulating Glass with Solar Control Low-E Coating, Spandrell Units

St. James Market
- Location: London, UK
- Product: Approx. 1,500 sqm Insulating Glass with Solar Control Low-E Coating
National Institute for Legislative Studies
Location: Abuja, Nigeria
Product: Approx. 700 sqm Insulating Glass with Solar Control Low-E Coating

Metrostation Avtovakzal Baku
Location: Baku, Azerbaijan
Product: Approx. 5,000 sqm Insulating Glass with Solar Control Low-E Coating

TDB Ulan Bator
Location: Ulan Bator, Mongolia
Product: Approx. 5,000 sqm Insulating Glass with Solar Control Low-E Coating

Technical Center
Location: St. Pölten, Austria
Product: Approx. 2,500 sqm Insulating Glass with Integrated Electrical Blind System

Fletcher Hotel
Location: Amsterdam, Netherlands
Product: Approx. 3,500 sqm Glass with Digital Printing

Leninskiy Prospekt 119
Location: Moscow, Russia
Product: Approx. 7,000 sqm Insulating Glass with Solar Control Low-E Coating

Cleveland Clinic
Location: Abu Dhabi, ARE
Product: Approx. 7,000 sqm Glass with Digital Printing
Rose of Sharon Tower
- Location: Lagos, Nigeria
- Product: Approx. 3,000 sqm Insulating Glass with Solar Control Low-E Coating

Athletes Village London (Olympic Games 2012)
- Location: London, UK
- Product: Approx. 7,000 sqm Insulating Glass with Solar Control Low-E Coating

Center Point West
- Location: Anchorage, USA
- Product: Approx. 5,000 sqm Insulating Glass with Solar Control Low-E Coating

AVIVA North American Headquarters
- Location: West Des Moines, USA
- Product: Approx. 8,000 sqm Insulating Glass with Solar Control Low-E Coating
University of New Brunswick
Location: New Brunswick, Canada
Product: Approx. 1.100 sqm Insulating Glass with Digital Printing

Wellmark Corporate Headquarters
Location: West Des Moines, USA
Product: Approx. 8.000 sqm Insulating Glass with Solar Control Low-E Coating

Hangzhou Blue Wahle Mansion
Location: Hangzhou, China
Product: Approx. 5.000 sqm Insulating Glass with Solar Control Low-E Coating

Dongyin Centre
Location: Shanghai, China
Product: Approx. 34.000 sqm Insulating Glass with Solar Control Low-E Coating

Private Villa
Location: Lagos, Nigeria
Product: Approx. 200 sqm Insulating Glass - Bullet Resistant

Place of Shabyt
Location: Astana, Kazakhstan
Product: Approx. 17.000 sqm Insulating Glass with Solar Control Low-E Coating
1. BIDV Tower
   - Location: Hanoi, Vietnam
   - Product: Approx. 11,000 sqm Insulating Glass with Solar Control Low-E Coating

2. CALTECH Annenburg Center
   - Location: Los Angeles, USA
   - Product: Approx. 2,000 sqm Insulating Glass with Solar Control Low-E Coating

3. NAPRED Office Park
   - Location: Belgrade, Serbia
   - Product: Approx. 5,000 sqm Insulating Glass with Solar Control Low-E Coating

4. Golden Bund Tower
   - Location: Shanghai, China
   - Product: Approx. 20,000 sqm Insulating Glass with Solar Control Low-E Coating

5. Nestoil Tower
   - Location: Lagos, Nigeria
   - Product: Approx. 10,000 sqm Insulating Glass with Solar Control Low-E Coating
LiSEC Glass Forum
Competence Center for research, production and training in the field of flat glass processing

Facts and figures:
- Opened October 2015
- Latest LiSEC technologies
- 70 employees
- Investment: 7 million € since 2015
- 15 million Euros turnover
- Approx. 100 customer visits per year
- Glass storage with 96 rack positions
- 3 insulating glass lines
- 3 cutting lines for float, laminated and special glass
- Two AEROFLAT tempering furnaces
- Automatic sorting/shuttle logistics
- Planned ahead maintenance schedule
- Automatic production planning and machine addressing

The new LiSEC Competence Center for research, production and training in the field of flat glass processing was opened in Hausmening at the end of 2015. It aligns completely with the LiSEC claim „Best in Glass Processing“. The Competence Center „Glass Forum“ makes LiSEC the only machine manufacturer on the market who profitably processes flat glass. This operator know-how allows LiSEC to share and therefore fully understand their customers’ problems and challenges.

LiSEC Glass Forum
The „Glass Forum“, a LiSEC investment of approximately seven million Euros, accommodates the latest LiSEC technologies for each step of glass processing – from cutting and edge processing to a sophisticated sheet logistics system to the production of insulating glass units and laminated safety glass including tempering. In the Glass Forum, flat glass is processed under real life production conditions. The state-of-the-art plants and software applications are also used for research, testing and training.