



## Brakel<sup>®</sup> Retail Concept

# Safe and pleasurable shopping

Much research has been carried out into what contributes to the success of shopping centres and other retail companies. Apart from such issues as accessibility for older or less mobile people it would appear that adequate daylight, a pleasant indoor climate and energy efficiency (especially for the owners, management and shopkeepers) are important factors that can determine the success of a retail outlet. Adequate fire safety provisions ensure that the shopping centre retail company can reopen quickly following a fire thereby limiting any financial damage.

- The correct fire safety provisions: prompt alerting, safe escape routes, damage limitation.
- Daylight: increases customer loyalty, makes products more appealing, increases turnover.
- Good indoor climate: increases appeal, customers shop longer, less absence through illness, energy-efficient.



### Comfort

The comfort of the shopping environment is largely influenced by the ambient temperature and the presence of daylight. Brakel uses smoke and heat exhaust systems that can also be used for daily ventilation: two birds with one stone. During the summer excess heat is expelled using night cooling.

The translucent SHEV systems also allow (a degree of) daylight access. SHEV systems – using louvered ventilators

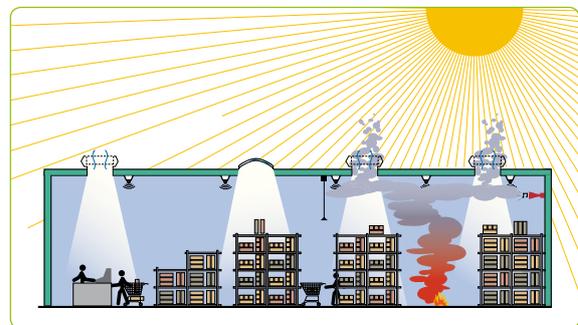
and/or opening lights can be easily and aesthetically integrated into all types of Brakel glass constructions; be it rooflights, glass skylights or large glass roofs.

### Energy-efficient

The Brakel smoke and heat exhaust systems are based on a natural principle that hot air rises using an updraft. This enables hot air to be expelled in an energy-efficient manner.

### Brakel can provide total fire safety:

- The wishes and requirements of both the client and the authorities
- Prompt detection of smoke and fire using fire alarm systems
- Prompt alerting of the authorities using fire alarm systems
- Exhaust of smoke and heat using smoke and heat exhaust systems
- The prevention of fire transfer and fire spread (WBDBO - Dutch Building Code)
- A minimum of structural fire safety provisions
- Option to connect to a security alarm system
- Option to connect to extinguishing systems
- Option to use fire services (fire suppression)
- A good evacuation plan, clearly defined in combination with an evacuation alarm system
- The provision of safe escape routes using signage and emergency lighting
- Regular monitoring of fire safety through maintenance, inspections and certification.



Total solutions	Advantages
<ul style="list-style-type: none"> <li>• Fire Safety Engineering</li> </ul>	<ul style="list-style-type: none"> <li>• Total fire safety</li> <li>• The architectural, installation, technical and organisational aspects are all considered</li> <li>• Fire Department suppression protocols are taken into account</li> </ul>
<ul style="list-style-type: none"> <li>• Detection, fire alarm system*</li> </ul>	<ul style="list-style-type: none"> <li>• Prompt alerting to smoke and fire</li> <li>• Alerting authorities</li> </ul>
<ul style="list-style-type: none"> <li>• Evacuation*</li> <li>• Escape route signage*</li> </ul>	<ul style="list-style-type: none"> <li>• Safe and fast evacuation</li> </ul>
<ul style="list-style-type: none"> <li>• Compartmentation using smoke and/or fire screens*</li> <li>• Smokescreens in accordance with EN 12101-1</li> </ul>	<ul style="list-style-type: none"> <li>• Prevents the spread of smoke</li> <li>• Prevents the spread of fire</li> </ul>
<ul style="list-style-type: none"> <li>• Smoke and heat exhaust (SHEV) system *</li> <li>• Products in accordance with EN 12101-2 and 12101-3</li> </ul>	<ul style="list-style-type: none"> <li>• The exhaust of smoke and heat to reduce temperatures and create safe escape routes</li> <li>• Improved visibility during rescues and fire extinguishing duties</li> <li>• Cost efficient: SHEV can be used for daily ventilation and daylight access</li> <li>• Cost efficient: reduction in structural provisions required</li> </ul>
<ul style="list-style-type: none"> <li>• Management and maintenance*</li> <li>• Annual fire safety inspections and checks</li> <li>• Certification*</li> </ul>	<ul style="list-style-type: none"> <li>• Reduction in financial risks due to fire</li> <li>• All-in contract</li> <li>• Guarantee of fire safety</li> </ul>
<ul style="list-style-type: none"> <li>• Adequate daylight access supplied by glass roofs, glass rooflights or skylights and/or glass louvered ventilators and opening lights</li> </ul>	<ul style="list-style-type: none"> <li>• Improves shopping experience and appeal of the products, people shop longer internal, increases turnover</li> </ul>
<ul style="list-style-type: none"> <li>• Ventilation system</li> </ul>	<ul style="list-style-type: none"> <li>• Combination with SHEV</li> <li>• Elimination of excessive heat in the summer</li> <li>• A pleasant indoor climate</li> </ul>

\* In accordance with local regulations



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