

# Brakel<sup>®</sup> Estra





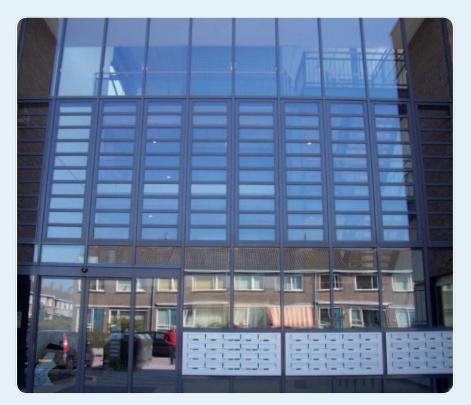


Green

Building Product

### Transparent louver ventilator

The Estra is a transparent louver system which is fitted vertically, and is suitable for both daily ventilation and smoke & heat extraction. The Estra's aesthetic and sleek design means that it really comes into its own in projects featuring substantial amounts of glass. The Estra has thermally separated profile sections, and is available with either single or double glazing. The choice of louvers available includes point-fixed, circumferentially framed and (semi-)structural glazing. Fields of application: atriums, shopping centres, industrial buildings and offices.



## **Green Building Products**

As a leading partner in its field, Brakel endeavours to remain a forerunner in the area of corporate social responsibility. Given that with our products, we let in the best that nature has to offer, it is only natural that we also care greatly for the environment. We therefore seek to integrate sustainable solutions in our working methods, products and services, wherever possible.

We have categorised our highly extensive product range according to the levels of sustainability and comfort applicable. The many energy efficient products and systems in the range can be recognised by the butterfly icons that they bear.

We classify our products, ranging from functional to sustainable, as follows:

E	functionally applicable in accordance with current qualifications / standards
	compliant with raised sustainability requirements
	compliant with high sustainability requirements
	entirely in keeping with a sustainable solution

#### Estra

The Estra is a transparent louver system which is fitted vertically, and is suitable for both daily ventilation and smoke & heat extraction. The entire Estra range is both functional and sustainable, while it has an aesthetic yet and sleek appearance.





## Single glass point-fixed



#### Single glass top hinge





#### Double glazed top hinge



#### Double glazed top hinge for roof installation





#### Double glazed Center pivoted framed



## Double glazed Center pivoted (semi-)structural





# Estra product overview

					Fac	cade						Roof 5°-75°		
Single glazing						Double glazing								
Ð					<b>S S</b>									
Estra EG 6 /8 / 10 Overlapping	Estra EG 12 Overlapping	Estra EG 12 Point-Fix Flush	Estra EG 12 Point-Fix Overlapping	Estra EG 10 / 12 Top Flush	Estra EG 10 / 12 Top Overlapping	Estra TG 24 / 30	Estra TG 30 / 40 Semi-Structural	Estra TG Structural	Estra TG 32 / 40 Top Framed	Estra TG 32 / 40 Top Semi-Structural	Estra TG 32 / 40 Top Structural	Estra TG 32 / 40 Roof		
<ul> <li>✓</li> </ul>	✓	✓	✓			✓	✓	✓					Center pivoted	at
<ul> <li>✓</li> </ul>		<b>~</b>	~										Point-fixed	Louver attachment
				~	~				<b>~</b>	~	✓	<b>~</b>	Top hinge	ňt .
						~		on the inside	~				Circumferentially framed	E .
~	~	~	~	~	~		~			~			Semi-structural (horizontal structural, supported on the side)	Louver model
								~			~	~	Structural	
<ul> <li>✓</li> </ul>	~		~		~								Overlapping	conn
		~		~		✓	✓	~	✓	~	✓	~	Flush connection	Louver
<ul> <li>✓</li> </ul>	~	<b>~</b>	~	✓	~								Toughened single glass	Gla
<ul> <li>✓</li> </ul>	~	~	~	~	~								Laminated single glass	Glass options
						~	~	~	~	~	~	~	Double glazing	ons
						<b>~</b>	<b>~</b>	~	<b>~</b>	✓	<b>~</b>	<b>~</b>	Thermally separated	Fun
				~	~	<b>~</b>			<b>~</b>	✓	✓	<b>~</b>	lso sandwich panel	Further specifications
6/8/10	12	12	12	10/12	10/12	24 / 30	30 / 40	-	32 / 40	32 / 40	32 / 40	32 / 40	Glass thickness	ecificati
200-300	200-300	200-300	200-300	250-450	250-450	200-300	200-300	200-300	250-700	250-700	250-700	250-650	Louver height (mm)	ons
~	~					~		~		~	~		EN 12101-2	
max. 1500 mm (6 / 8 / 10 mm)	max. 1650 mm (12 mm)	max. 1650 mm	max. 1650 mm	max. 1200 mm	max. 1200 mm	max. 1600 mm / 24 mm optional: max. 1800 mm / 30 mm	max. 1800 mm	max. 1800 mm	max. 1700 mm	max. 1200 mm	max. 1200 mm	max. 1400 mm	Max. width per element	

# Operating systems

- Manually operated by means of a lever or spindle
- Motor 230V / 24V
- Pneumatic cylinder

# Interlinking

Elements can be interlinked using a mullion

