



Glos E45

I. Description

System for natural smoke and heat ventilation in case of fire and daily ventilation for facade mounting based on profile system E45 of ETEM.



E45 includes all profiles required in order to construct all the known opening and fixed arrangements. There is a variety of profiles to fully satisfy all structural and aesthetic requirements. Profiles are designed to offer optimum structural stability. Parts, which are likely to be stressed, are reinforced. A great variety of accessories offers the stability so that „T“ profiles can be joint either by screws, either by „T“ brackets. The main advantage of the E45 series is its improved thermal performance to be used in cold climate.

1.1.Integrity in

- All types of facades and constructions
- Glass construction

1.2. Function

- Natural daylight
- Natural ventilation
- Smoke and heat ventilation



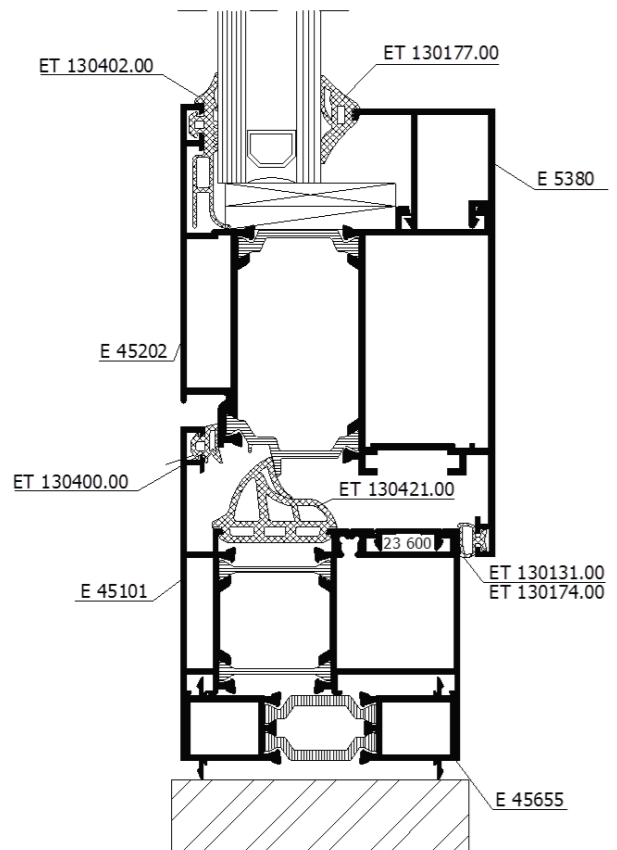
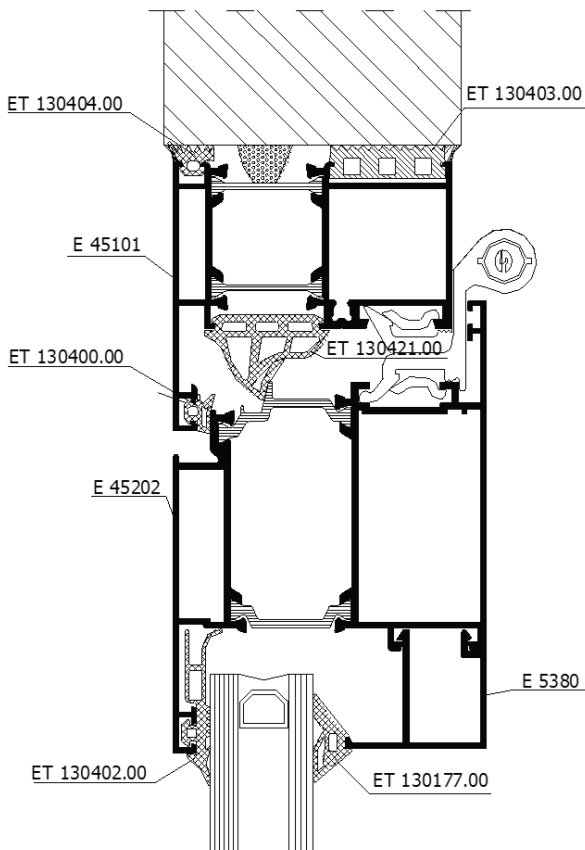
1.3. Correspondence

Glos E45 in accordance with the following Directives and Standards:

General standarts		
1	EN 12 101-2	1396-C PD-0045
2	ISO 9001: 2008	
Additional test and approvals		
5	EN 1026 : 2000	EN 12 207 : 2000
6	EN 1027 : 2000	EN 12 208 : 2000
7	EN 12 211 : 2000	EN 12 210 : 2000

II. Components

Application 1



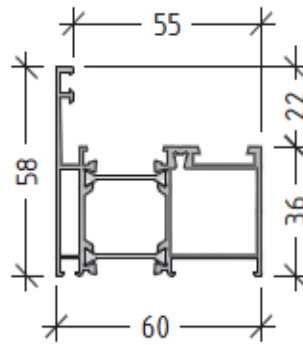


2.1. Casement

Sizes:

- From 500 to 2000mm width
- From 500 to 2500mm length

E 45101



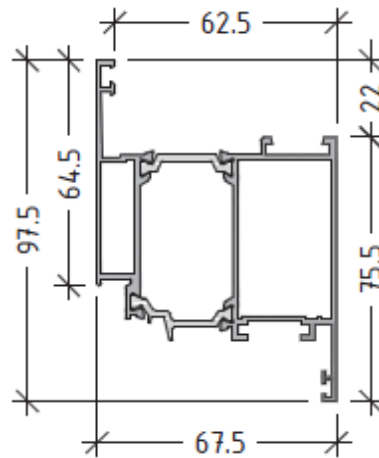
1116 g/m
L=6.01 m

$J_x=7.96 \text{ cm}^4$
 $J_y=17.06 \text{ cm}^4$

2.2.Types sashes

2.2.1. For inward opening (large)

E 45202

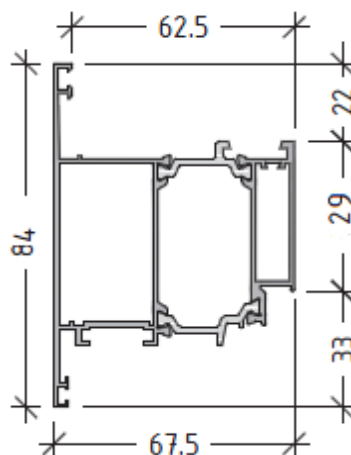


1589g/m
L=6.01 m

$J_x=27.35 \text{ cm}^4$
 $J_y=33.21 \text{ cm}^4$

2.2.2. For outward opening (mean)

E 45241



1524 g/m
L=6.01 m

$J_x= 15.98 \text{ cm}^4$
 $J_y=28.57 \text{ cm}^4$



2.3. Fillings

2.3.1. Cellular polycarbonate

Application 2

No	Solution	View
1	PC 10m m	
2	PC 16m m	
3	PC 20m m	
4	PC 25m m	
5	PC 32m m	
6	PC 40m m	

2.3.2. Package solutions

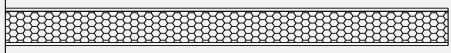
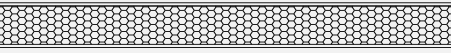
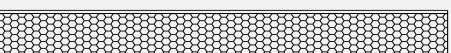
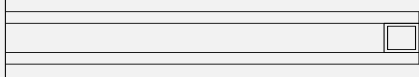

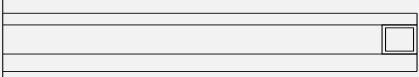
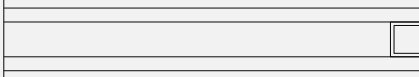


Application 3

No	Solution	View
1	PC 10 + 10 m m	
2	PC 16 + 16 m m	
3	PC 10 + 20 m m	



2.3.3. Other solutions

Application 4

№	Solution	View
1	thermo panel 20m m	
2	thermo panel 22m m	
3	thermo panel 24m m	
4	Glasspackage 4+4m m / 18m m	
5	Glasspackage 4+5m m / 19m m	
6	Glasspackage 4+6m m / 20m m	
7	Glasspackage 5+5m m / 20m m	
8	Glasspackage 5+6m m / 21m m	
9	Glasspackage 6+6m m / 22m m	

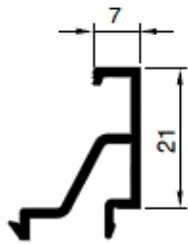
Note: 1. Available package solution with reinforced inner layer for high placement

2. Spacers in glass packages may have different sizes 20x10mm, 20x20mm, 30x20mm

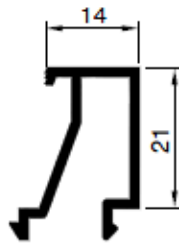


2.4. Additional elements

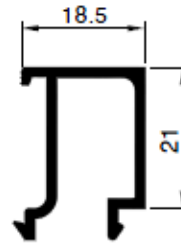
- Glazing beads for standard glass package or thermo panel



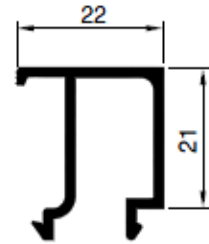
E-1144
205 g/m



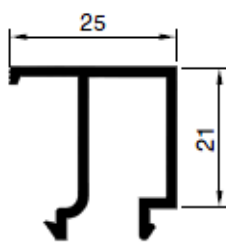
E-5324
238 g/m



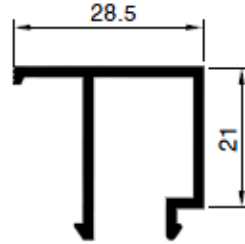
E-5304
270 g/m



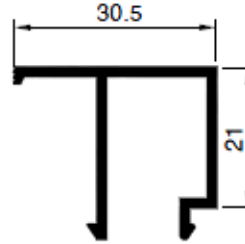
E-1113
281 g/m



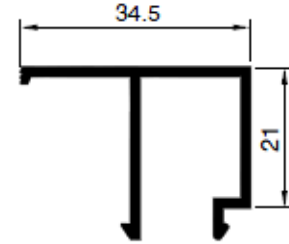
E-5307
289 g/m



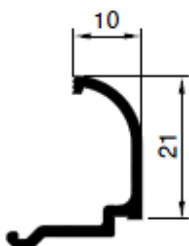
E-5397
294 g/m



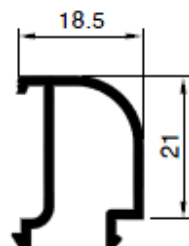
E-5380
302 g/m



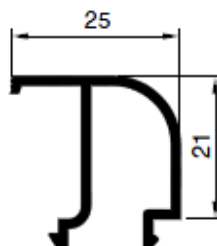
E-5305
316 g/m



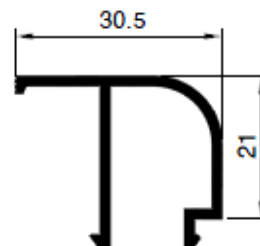
E-1130
181 g/m



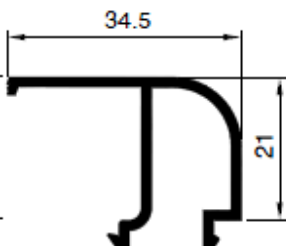
E-5394
253 g/m



E-5308
275 g/m



E-5393
286 g/m



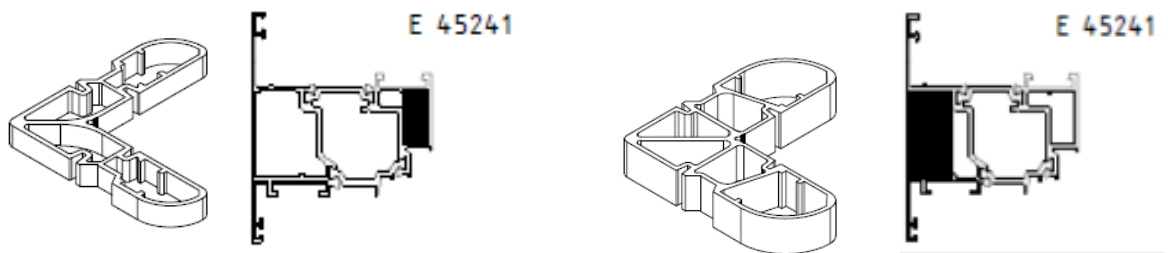
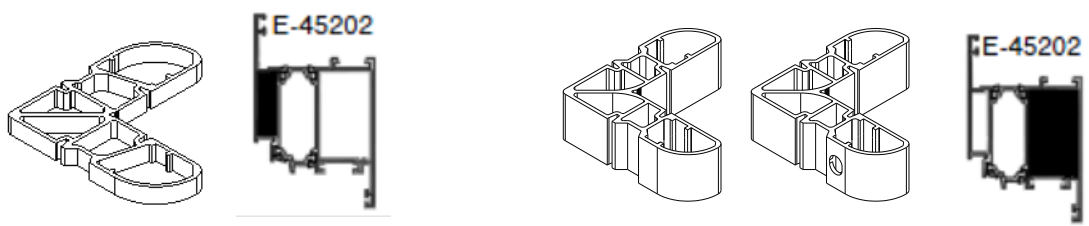
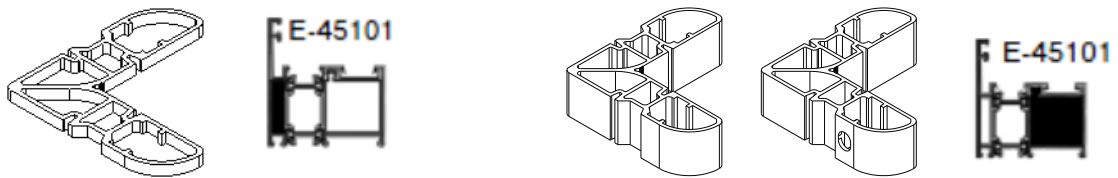
E-5309
305 g/m

- Standard glass package or thermo panel
- Sashes's extender
- Hinges
- Plastic drain cap
- Vulcanised EPDM corner
- Candle

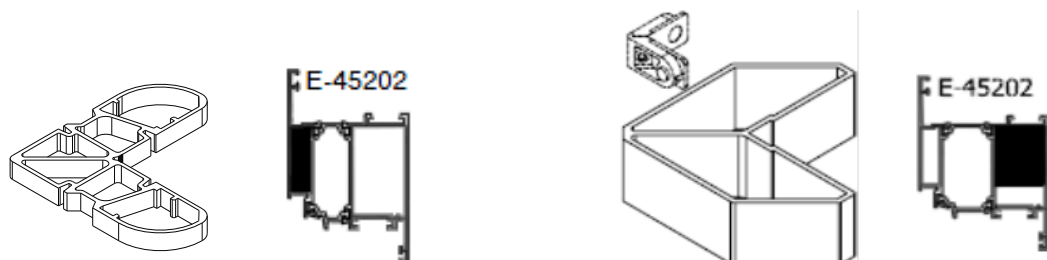
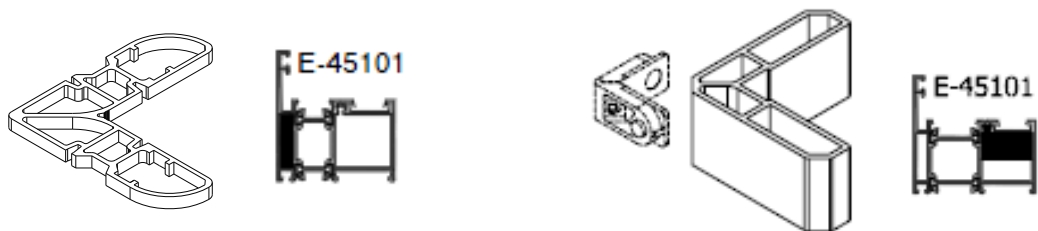


2.5. Joint corner brackets

2.5.1. Assembly with crimping machine



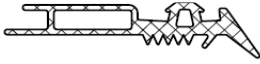
2.5.1. Mechanical assembly



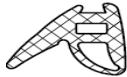


2.6. Gaskets

- **Elongated glazing EPDM gasket ET-130402.00**



- **Glazing EPDM gasket press-in 7-8mm ET-130177.00**



- **Internal seal EPDM gasket ET-130400.00**



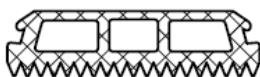
- **Centre seal EPDM gasket ET-130421.00**



- **Wall-joining EPDM gasket (external) for straight fixed frame ET-130404.00**



- **Wall-joining EPDM gasket ET-130403.00**



- **Interior seal EPDM top line ET-130174.00**





III. Ventilation function

3.1. Daily ventilation

- Chain drive



- Pneumatic cylinder. Opening height - 300/500mm



3.2. RWA function

Reliability	Re 1000
Snow load	SL 0
Low ambient temperature	T (00)
Wind load	WL 1000 WL 1150
Resistance to heat classification	B 300
Reliability for daily ventilation	LE 10 000



3.3. Technical parameters

- **Air permeability**

Class 4	EN ISO12 207 Air permeability
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- **Water permeability**

Class E1200	EN ISO12 208 Water permeability
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- **Wind resistance**

Class C5	EN ISO12 210 Wind resistance
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ETEM E45 - With thermal break

- Optimized for highest structural stability
- Profile re-inforcement at load bearing points
- Opening parts – opening at vertical axis, tilt and turn, opening at top or bottom horizontal axes
- Reliable pivot mechanism
- Window sashes for PVC hardware which enables multiple locks, hinge adjustment and fast mounting
- New elegant series with concealed sash
- Mechanism for smoke proof doors according to safety regulations

Note: For more information, please contact your consultant.