

## EasyClean-Pan®

### TECHNICAL DATASHEET

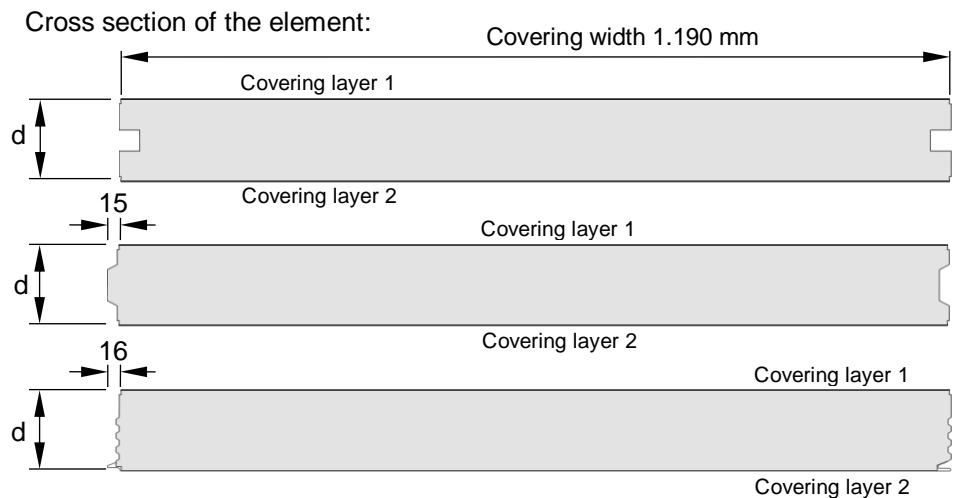
#### Product description – area of application

The product family **EasyClean-Pan®** is a light wall and ceiling system for the spatial interior construction where high hygienic requirements are placed on the building component surfaces, e.g. in the food processing industry, cheese ripening rooms, clean rooms etc.

- self-supporting sandwich panels consisting of an insulating core with top and bottom cover layers
- non-corrosive FRP cover layers, safe for contact with unpacked food, resistant to aggressive chemicals<sup>(1)</sup>, easy to clean
- almost seamless surfaces (system joint EasyClean-Pan® → two-component joint compound KL25) and corner modules (with rounded corner formation) for highest hygiene requirements
- high thermally insulating, continuous core insulation layer, joints without thermal bridges

#### Technical data

Dimensions:



Joint design:

FRP covering layer (visible side)	system joint EasyClean-Pan® (KL25)
FRP / aluminium (back side)	plastic H-profile
Galvanized steel (back side)	plastic H-profile or Z-Lock (nut + spring, roll-formed)
Insulating core	nut + loose spring or fixed V-spring or crown profile

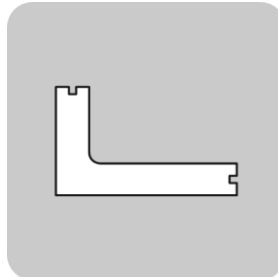
<sup>1</sup> See the separate data sheet for resistance to usual chemicals.

Available lengths: between 2.00 m and 12.00 m  
short lengths < 2.00 m with extra charge, excessive lengths on request

Manufacturing tolerances: based on DIN EN 14509

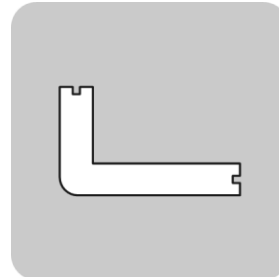
Corner modules: cross-section variations

**Type A**



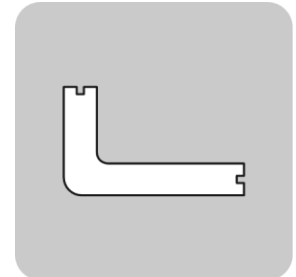
Inside corner rounded

**Type B**



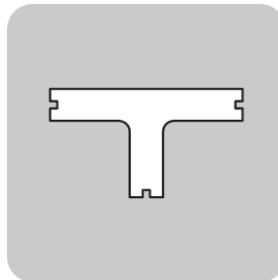
Outside corner rounded

**Type C**



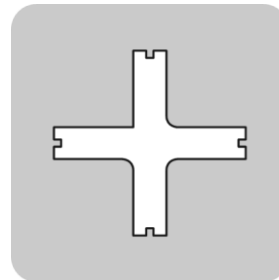
Inside + outside corner rounded

**Type T**



Wall connection with rounded inner corners

**Type X**



Wall crossing with rounded inner corners

Corner moduls only with EPS insulating core!

Materials:

Covering layer 1 (variants):

FRP, white (similar RAL 9016)

- 1.2 mm thick, flat with gelcoat surface sealing
- 1.5 mm thick, flat with gelcoat surface sealing and fabric insert
- 2.0 mm thick, flat with gelcoat surface sealing and fleece insert
- 2.0 mm thick, structured with foil sealing

Covering layer 2 (variants):

- FRP in accordance with covering layer\_1
- Galvanized steel sheet (Z275), thickness 0.5/0.6 mm, primed or colour-coated (standard: polyester 25 µm, RAL 9002), surface lined or flat
- Aluminium foil 0.08 mm thick, coarse grain embossed, white

Insulating core (variants):

All core insulation materials are HBCD and CFC / HCFC-free!

- EPS 100 (compressive strength 100 kPa), density approx. 18 kg/m<sup>3</sup> flame retardant (DIN 4102-B1)
- EPS 150 (compressive strength 150 kPa), density approx. 25 kg/m<sup>3</sup>, flame retardant (DIN 4102-B1)
- mineral wool, density approx. 135 kg/m<sup>3</sup>, non-flammable (DIN 4102-A1), with a special fibre structure oriented perpendicular to the surface

Structural behaviour: object-related predimensioning as required

Fire behaviour: composite panel normally flammable, class E (DIN EN 13501-1), equivalent to B2 (DIN 4102)

Thermal insulation properties: In dependence of the insulating core used, the following values have to be used as design value of the thermal conductivity  $\lambda$  when thermal protection is calculated. (Thickness-dependent heat transfer coefficients U see Table 1

EPS 150  $\lambda = 0.035 \text{ W / (m}^*\text{K)}$   
 EPS 100  $\lambda = 0.040 \text{ W / (m}^*\text{K)}$   
 MW  $\lambda = 0.055 \text{ W / (m}^*\text{K)}$

**Table 1**

Panel thickness [mm]	EPS 150 U [W/(m <sup>2</sup> *K)]	EPS 100 U [W/(m <sup>2</sup> *K)]	MW U [W/(m <sup>2</sup> *K)]
80	0,438	0,500	0,688
100	0,350	0,400	0,550
120	0,292	0,333	0,458
140	0,250	0,286	0,393
160	0,219	0,250	0,344
180	0,194	0,222	0,306
200	0,175	0,200	0,275
220	0,159	0,182	
240	0,146	0,167	
260	0,137	0,154	
280	0,125	0,143	
300	0,117	0,133	