

## EasyClean-Pan®

### TECHNICAL DATASHEET

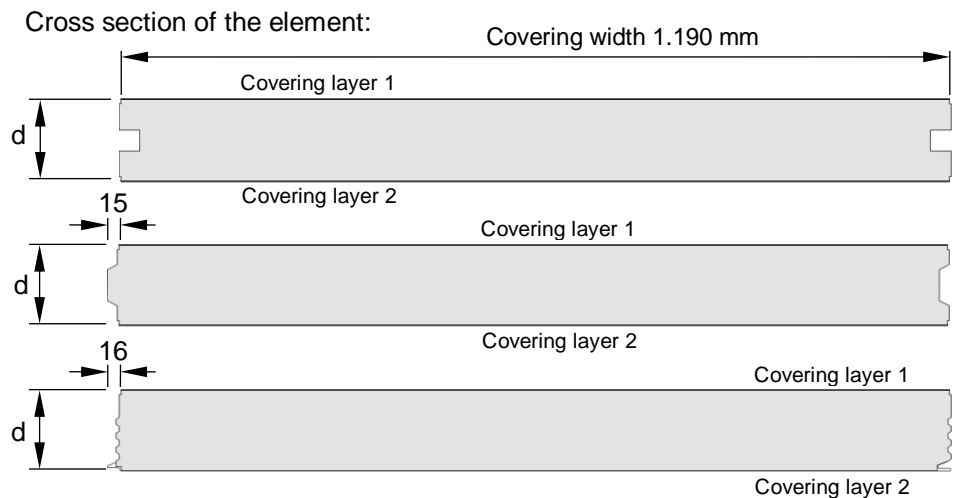
#### Product description – area of application

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:



thickness range (depending on insulation core material)

with EPS	min. 80 mm to 300 mm
with PIR	min. 80 mm to 200 mm
with min. MW	min. 80 mm to 200 mm (MW)

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

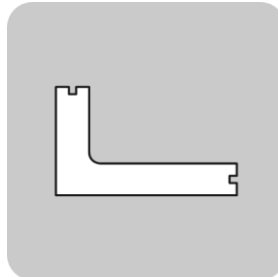
<sup>1</sup> See the separate data sheet for resistance to usual chemicals.

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

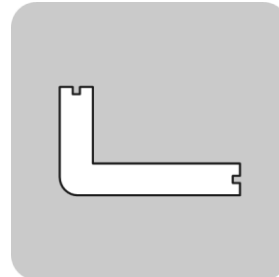
Corner modules: cross-section variations

**Type A**



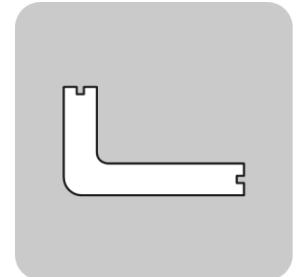
Inside corner rounded

**Type B**



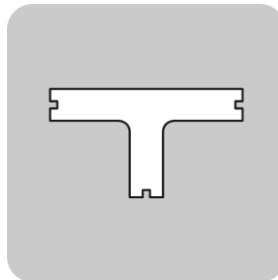
Outside corner rounded

**Type C**



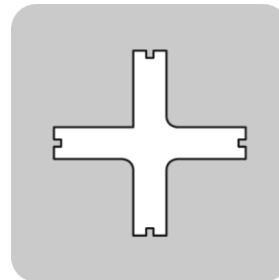
Inside + outside corner rounded

**Type T**



Wall connection with rounded inner corners

**Type X**



Wall crossing with rounded inner corners

Corner modules 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 according to DIN EN 13163
- PIR according to DIN EN 13165
- mineral wool according to DIN EN 13162, non-flammable (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  $\lambda_B$  according to DIN 4108-4 when thermal protection is calculated. (Thickness-dependent heat transfer coefficients U see **Fehler! Verweisquelle konnte nicht gefunden werden.**)

- EPS  $\lambda_B=0,035 \text{ W/(m}\cdot\text{K)}$  or  $\lambda_B=0,040 \text{ W/(m}\cdot\text{K)}$
- PIR  $\lambda_B=0,026 \text{ W/(m}\cdot\text{K)}$  for element thickness >120 mm  
 $\lambda_B=0,027 \text{ W/(m}\cdot\text{K)}$  for element thickness 80 - 120 mm
- MW  $\lambda_B=0,048 \text{ W/(m}\cdot\text{K)}$

**Table 1**

Panel thickness [mm]	U [W/(m <sup>2</sup> *K)]			
	EPS 040	EPS 035	PIR 026/027	MW 048
80	0.500	0.438	0,338	0,600
100	0.400	0.350	0,270	0,480
120	0.333	0.292	0,225	0,400
140	0.286	0.250	0,186	0,343
160	0.250	0.219	0,163	0,300
180	0.222	0.194	0,144	—
200	0.200	0.175	0,130	—
220	0.182	0.159	—	—
240	0.167	0.146	—	—
260	0.154	0.137	—	—
280	0.143	0.125	—	—
300	0.133	0.117	—	—