



Sandwich panels Facade, partition wall and ceiling applications



PIR hard foam (visible mounting)

by Cladding Point

**BETA-PR (KV)** 



PIR hard foam (visible mounting)

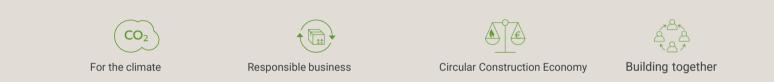
# Business Line Sandwichpanelen by Cladding Point



## DISCOVER AND EXPERIENCE

BETA-PR (KV) is a visibly attached hard foam sandwich panel from our Business Line range with a standard working width of 1150mm. The sandwich panel is available in 4 different options (exterior) profiles and 2 (interior) profiles and can be applied both vertically and horizontally. The abbreviation KV stands for KoelVries application (see labyrinth connection thickness 120-220mm). Discover the possibilities in Simplicity and Security.





At Cladding Point we take responsibility, that's why we work hard on things that really matter. By using responsible materials in our sandwich panels, we strive for a Circular Construction Economy. And how we work with our suppliers? We ensure that we have a positive impact on everyone we do business with, based on fairness and equality. We realize that it will not be easy, but waiting is not an option. Together we build a better future.

# BETA-PR (KV) PIR hard foam (visible mounting)

This product is available as standard in a working

width of 1150mm and on request in 1000mm

BETA-PR (KV) has a hard foam core with PIR

technology. This with a density of 40kg/m3.

(including fasteners, transition resistors and

BETA-PR (KV) complies with the European fire

is equipped with a FM approval hard foam core.

The air permeability with regard to the seam

connection in accordance with EN 12114.

classification B-s2-d0 (40-60mm) and B-s1-d0 (80-

220mm) in accordance with EN 13501-1. This product

Negative (-)

C 0.0028

n 1.2407

Adhy the above assessment we can conclude

the mutual seam connection, the total air

To meet the requirements, it is particularly

permeability of a building is limited.

that the contribution of the sandwich panels, i.e.

important that extra attention is paid to finishing

the connecting joints with other materials. This

includes window and door frames, penetrations,

other facade and day openings, floor and roof

The building decree only sets requirements at

building envelope in dm<sup>3</sup>/s per m<sup>2</sup> of usable

area. There are therefore no specific requirements for the facade panels (individual

in accordance with the Building Decree.

building level. This concerns the so-called gv10

value. I.e. the leakage loss through the complete

materials). This product meets the requirements

construction quality correction factor).

completely HCEC-free The insulation values of the

sandwich panels have been calculated in accordance

with the NEN-EN 10211-1, NTA 8800 and EN 14509

Working Width

Thermal efficiency

Fire class

Air permeability

Positive (+)

C 0.072

n 0.6724

c = Air flow coefficient

connections and the like.

n = Air flow exponent

Sandwich panels Facade, partition wall and ceiling applications

The interior coating can also be carried out on

request in a suitable coating for the food sector

agricultural sector, wet areas and an aggressive

environment. On request, this product is also

Terracoat 27um is a durable and aesthetically

(RUV4) and increased corrosion protection (RC5)

The base coating is polyester 25µm and suitable for

standard indoor environments. This interior coating

and ceilings, related parts and accessories. The

a suitable coating for the food sector, agricultural

request, this product is also available in stainless

made of polyester (PE) can be used on facades, roofs

interior coating can also be carried out on request in

sector, wet areas and an aggressive environment. On

Complete overview of coatings/colours

View all coatings and colour options in our colour

Standard 10 year manufacturer's warranty on

structural and thermal performance. Coating

warranty with a possibility of up to 40 years

possible and upon request.

(depending on the type of coating and project-

specific information). Project-specific guarantees are

Our deliveries from the Business Line are unloaded

free of charge and are largely transported by ... road

transport and are based on Lean and Green and Euro

available in stainless steel 304/316.

ensure excellent colour retention.

Standard interior coatings

steel 304/316.

Guarantee

Deliveries

6-7.

palette.

# Technical information

## Assembly instructions

Our installation instructions can be downloaded from our website or available from Cladding Point Technical Services. The 3-D models are included in the Tekla library: www.tekla.com

### Product name

Product name of our manufacturer Pruszvnski for this product is PWS PIR ST (40-100mm) and PWS PIR CH (120-220mm) is stated as such on the relevant certificates. Ask about the conditions and possible additional costs for the above-mentioned certifications

### General



Cladding Point believes it is important that the Circular Construction Economy is also measurable. That is why we have chosen to draw up an EPD for a large portion of our products.

An EPD (Environmental Product Declaration) gives the customer insight into how sustainable our sandwich panels are. In the Netherlands we also use the EPDs to calculate how much environmental damage a building causes compared to its surroundings. This is done in the environmental performance for buildings calculation, also known as the MPG.

The Business Line PR sandwich panels are not included in our Circular Construction Economy concept. The sandwich panels from Business Line AR panel and Brucha can provide the desired solution for reducing the environmental damage of your building. What is special is that these products have an EPD with a category 1 card that complies with the regulations of the RVO. This is the highest achievable level. If you apply this in a circular building you can achieve substantial tax benefits. You should always contact Cladding Point for advice on this.

## Water

Water vapor permeability is impermeable. Water permeability Class A-1200 Pa.

## Statics

To correctly determine the static capabilities of this product, please contact our technology department

### Management Systems

The BETA-PR (KV) sandwich panels are produced under the following management system: FN ISO 9001

## General certifications

BETA-PR (KV) is manufactured from the highest quality materials and meets the strictest standards

### Lengths

Production Lengths	mogelijk tot 16.000mm		
Length (standard)	2.000mm - 13.500mm		
Length* (non standard)	400mm - 2.000mm 13.500mm - 16.000mm		
* Additional costs and transport surcharges may apply			

rcharges may apply. Ask about the options and conditions.

### Tolerances

Voegaansluiting (2mm)	+2mm	-2mm
Lengten_<3000mm >3000mm	+5mm +10mm	-5mm -10mm
Werkende breedte	+2mm	-2mm
Thickness (d)<100mm (d)>100mm	+2mm +2%	-2mm -2%
Haaksheid (s)	<0,6%	

Tolerances are compliant with EN 14509

## Standard exterior coatings

The base coating is polyester 25µm and suitable for

pleasing product and delivers good performance. The UV resistance (RUV3) and increased corrosion protection (RC3) ensure good colour retention. Granite® HDX (type G) 55um is a technical, durable and aesthetically high-quality product and delivers very good performance. Excellent UV resistance

and quality controls. This product is CE and Dibt (zulassung) certified.

Production Lengths	mogelijk tot 16.000mm		
Length (standard)	2.000mm - 13.500mm		
Length* (non standard)	400mm - 2.000mm 13.500mm - 16.000mm		
* Additional agets and transport oursharges may apply			

standard indoor environments. This interior coating made of polyester (PE) can be used on facades. roofs and ceilings, related parts and accessories.

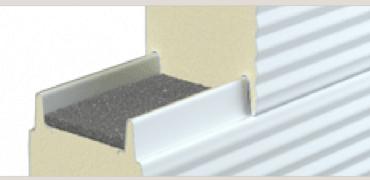
## **Technical Properties**

BETA-PR								KV 🎆		
Thickness (mm)	40	50	60	80	100	120	160	180	200	220
Total pane weight (kg/m²) Outer plate thickness 0.5 mm Inner plate thickness 0.5mm	9,40	9,80	10,20	11,00	11,80	12,60	14,20	15,00	15,80	16,60
Noise Reduction (Rw (C,Ctr) dB)	~27 (-2;-4)	~25 (-3;-5)	~25 (-3;-5)	~25 (-3;-5)	~25 (-3;-5)	~25 (-3;-5)	~25 (-3;-5)	~25 (-3;-5)	~25 (-3;-5)	~26 (-4;-5)
Rc-value (m².K/W), NTA 8800	1,75	2,27	2,81	3,86	4,88	5,92	7,95	8,96	9,97	10,99

Cross-section panel (thickness 40 - 100mm)



Connection (visible confirmation, thickness 40 - 100mm)



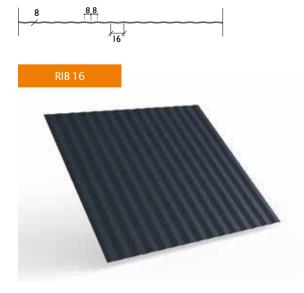
Cross-section panel (thickness 120 - 220mm)



## Connection (visible confirmation, thickness 120 - 220mm)



Profiling



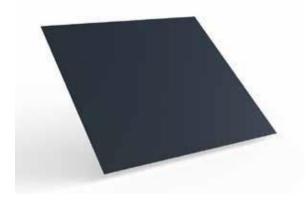
95,4

47.7





## ONGEPROFILEERD

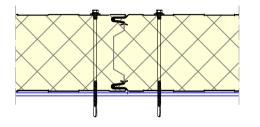


PROFILING	EXTERIOR A-SIDE	INTERIOR B-SIDE
Rib 16	YES	NO
Minibox	YES (40-100mm) NO (120-220mm)	NO
Box	YES	YES
Ongeprofileerd	YES*	YES*

\*On request.

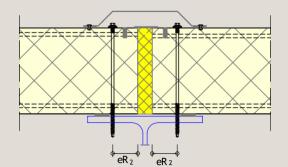


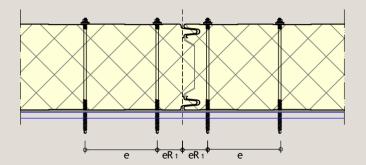
## Confirmation (visible confirmation)

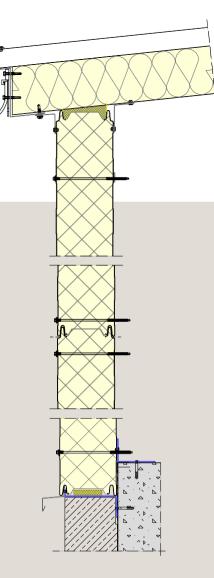


## Attachment method

Screw spacing	Spacing (e)	From panel edge (eR)
Perpendicular to mounting direction (see figure)	<u>&gt; </u> 100mm	<u>≥</u> 50mm (eR <sub>1</sub> )
Parallel to mounting direction	H.o.h. Distance Support	<u>&gt;</u> 20 mm & <u>&gt;</u> 3d (eR₂)
d: Screw Diameter		



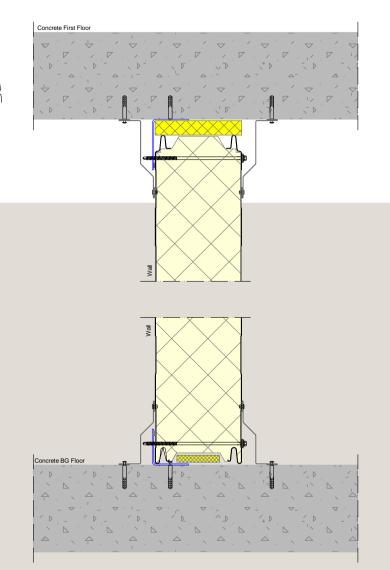




Principle detail of facade

# BETA-PR (KV) PIR hard foam (visible mounting)

Principle detail of partition wall









### Want to know more?

Cladding Point is continuously improving and testing its products. New test results are added on a regular basis. Should the desired fire resistance and any associated conditions apply to your project applies, are not included in the manual, please contact the technical department for the options and/or the latest status. In many cases we can offer you a suitable solution.

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