

CERTIFICATE

Certified Passive House Component

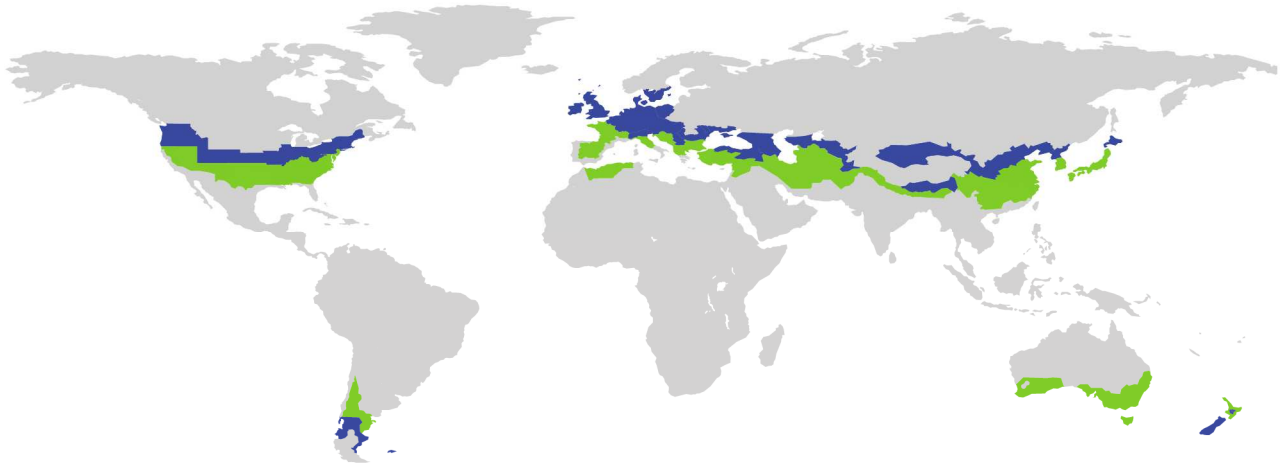
ID: 0807wa03 valid until 31. December 2022

Passive House Institute

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Category	Construction system Solid construction with EIFS
Manufacturer	Korea RockCell Board Inc. Ansan-si, Gyeonggi-do, 15064 KOREA
Product name	RockCell Passive-Detail-Set (load-bearing EIFS)

This certificate for the cool, temperate climate zone was awarded based on the following criteria

Hygiene criterion

The minimum temperature factor of the interior surfaces is

$$f_{R_{si}=0,25m^2K/W} \geq 0,70$$

Comfort criterion

The U-value of the installed windows is

$$U_{w,i} \leq 0,85 \text{ W}/(m^2K)$$

Efficiency criteria

Heat transfer coefficient of building envelope

$$U \cdot f_{PHI} \leq 0,15 \text{ W}/(m^2K)$$

Temperaturfactor of opaque junctions

$$f_{R_{si}=0,25m^2K/W} \geq 0,86$$

Thermal bridge free design for key connection details

$$\Psi \leq 0,01 \text{ W}/(m^2K)$$

An airtightness concept for all components and connection details was provided.



cool, temperate climate

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Determined values

Thermal heat transfer coefficient	Dimension [m]	U-Wert [W/(m²K)]
EW01 - External Wall	0,53	0,109
RO01 - Roof	0,52	0,081
FS01 - Floor Slab	0,83	0,111
BW01 - Basement Wall	0,45	0,131
BC01 - Basement Ceiling	0,56	0,143

Thermal bridge coefficient opaque envelop	fRsi [-]	Ψ [W/(mK)]
MRR1 - - Monopitched Roof Ridge	0,95	-0,069
ROVE01 - Roof Verge	0,91	-0,085
ROVE01 - Roof Verge	0,90	-0,056
ROEA01 - Roof Eaves	0,97	-0,014
EWEC01 - External Wall Outer Corner	0,92	-0,053
EWIC01 - External Wall Inner Corner	0,97	0,024
EWIW01 - External Wall Internal Wall	0,96	0,004
EWCE01 - External Wall internal CEiling	0,95	0,008
FSEW01 - Floor Slab External Wall	0,94	-0,037
FSIW01 - Floor Slab Internal Wall	0,98	0,006
EWHB01 - External Wall Heated Basement Ceiling	0,95	0,010
BCEW01 - Basement Ceiling External Wall	0,94	-0,022
BCIW01 - Basement Ceiling Internal Wall	0,98	0,019