



Manufacturer Window

ThermaDura DesignLine 90 passive



Material **Timber-Aluminium**

Description of baseline window

Thermally separated, double IGU-glazed (4/16air/4) aluminum window. Depth of frame: 46 mm. Spacer: Aluminium.

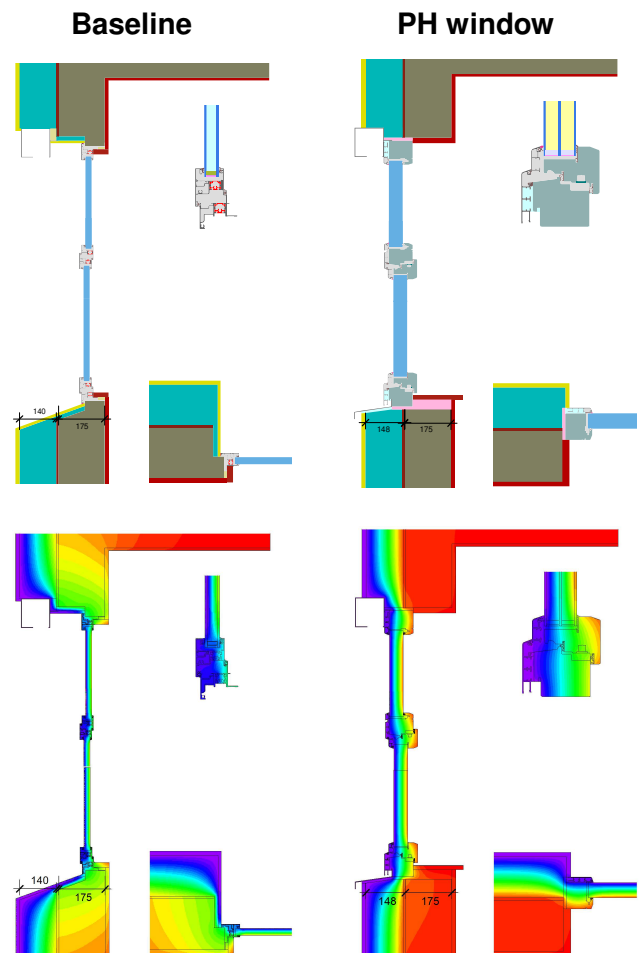
Installed in the construction layer with reveal insulation. Shaded by fabric screen.

Comfort- as well as hygiene criterion are not achieved.

Description of Passive House window

Timber aluminium frame. High performance triple glazing (4-20-4-20-4). Spacer: Swisspacer Ultimate.

Installed at the edge of the construction layer. Shaded by fabric screen. Airtightness by plaster able tapes.



New Zealand NZ0013a-Dunedin	Category 1		Category 2	
	Baseline	DesignLine	Baseline	DesignLine
U_g [W/(m ² K)]	1,36	0,52	1,36	0,52
U_f [W/(m ² K)]	3,26	1,06	3,15	1,07
U_w [W/(m ² K)]	2,08	0,76	2,16	0,80
$U_{w,i}$ [W/(m ² K)]	3,62	0,84	3,34	0,86
Glass fraction	73%	65%	76%	65%
g	64%	53%	64%	53%
Shading factor	12%	12%	12%	12%
Investment	2.157 €	2.656 €	3.557 €	5.016 €
Present v. Energy	621 €	28 €	1.187 €	33 €
LCC	2.779 €	2.685 €	4.744 €	5.048 €
LCC Saving		94 €		- 304 €
LCC Saving		3%		-6%
CO₂ [kgCO ₂ eq/a]	97	4	185	5
CO₂ Saving		92		180
CO₂ Saving		95%		97%

