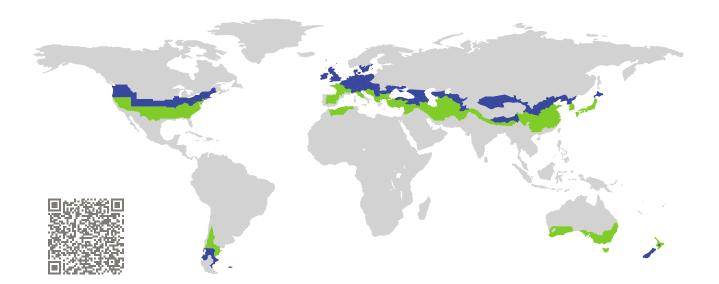
CERTIFICATE

Certified Passive House Component Component-ID 2393wi03 valid until 31st December 2025 Passive House Institute Dr. Wolfgang Feist 64283 Darmstadt Germany

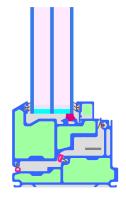


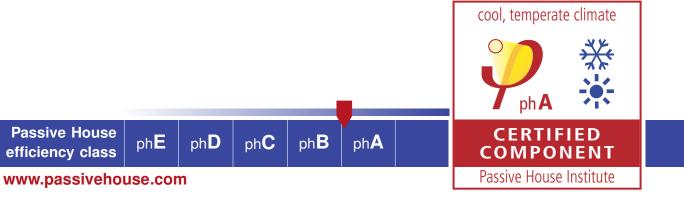
Category:	Window Frame
Manufacturer:	Duxton Windows & Doors,
	Winnipeg,
	Canada
Product name:	458AW Awning

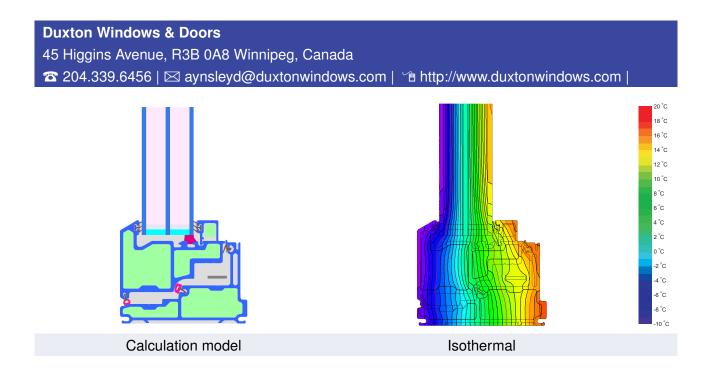
This certificate was awarded based on the following criteria for the cool, temperate climate zone

Comfort	$U_W = 0.79$	\leq	0.80 W/(m ² K)
	$U_{W,\text{installed}}$	\leq	0.85 W/(m ² K)
	with U_g	=	0.70 W/(m ² K)

Hygiene $f_{Rsi=0.25}$ \geq 0.70







Description

Fiberglass frame insulated by graphite polystyrene foam (0.031W/m.K). Pane thickness: 48 mm (4/18/4/18/4), rebate depth: 13,5 mm. In case a smaller noble gas gap than 16 mm is used, a Ug value of 0.54 W/m²K is necessary to achieve sufficient surface temperatures for the fixed part of the mullion.

Explanation

The window U-values were calculated for the test window size of 1.23 m \times 1.48 m with $U_g = 0.70$ W/(m² K). If a higher quality glazing is used, the window U-values will improve as follows:

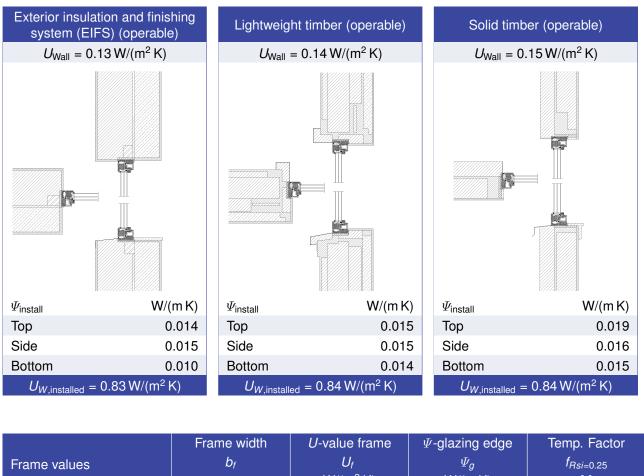
Glazing	$U_g =$	0.70	0.64	0.58	0.52	$W/(m^2 K)$
		\downarrow	\downarrow	\downarrow	\downarrow	
Window	$U_W =$	0.79	0.75	0.70	0.66	W/(m ² K)

Transparent building components are classified into efficiency classes depending on the heat losses through the opaque part. The frame U-Values, frame widths, thermal bridges at the glazing edge, and the glazing edge lengths are included in these heat losses. A more detailed report of the calculations performed in the context of certification is available from the manufacturer.

The Passive House Institute has defined international component criteria for seven climate zones. In principle, components which have been certified for climate zones with higher requirements may also be used in climates with less stringent requirements. In a particular climate zone it may make sense to use a component of a higher thermal quality which has been certified for a climate zone with more stringent requirements.

Further information relating to certification can be found on www.passivehouse.com and passipedia.org.

Validated installations



Frame value	es		b _f mm	U_f W/(m ² K)	Ψ_g W/(m K)	f _{Rsi=0.25} [-]
Mullion 1 casement	(1M1)	7	137	0.90	0.024	0.68
Bottom	(OB1)	4	95	0.82	0.023	0.72
Тор	(OH1)	T	95	0.82	0.023	0.72
Lateral	(OJ1)	11-	95	0.83	0.023	0.72
Spacer: Super Spacer Premium Secondary seal: Butyl						

www.passivehouse.com