# $HV~450\,$ timber/aluminium window with integrated blinds



# Thermal insulation U<sub>w</sub> as low as 0.62 W/(m²K) Sound reduction up to 46 dB Security RC1N, RC2 Locking concealed Construction depth

**PROPERTIES** 





### HV 450

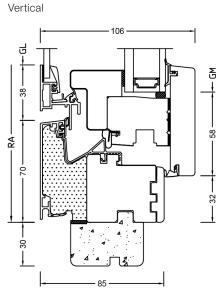
The completely flush transition from frame and sash as well as the integrated sun protection between the panes makes HV 450 one system. Blinds, Venetian blinds or Duette<sup>®</sup> are protected from dirt through the integrated installation which means 4 x more protection in one window with the perfect sun and privacy protection, thermal insulation and sound reduction. I-tec Shading works fully energy self-sufficiently and also offers several other useful functions. Convenient functionality is also available with I-tec Smart Window.

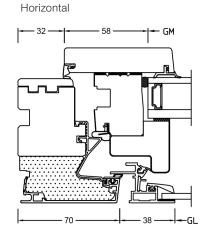
# TIMBER/ALUMINIUM WINDOW WITH INTEGRATED BLINDS HV 450

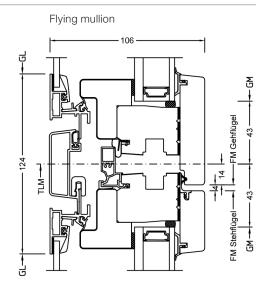


home soft

# **Sections**







### Values

Glass buildup	CO	Spacer	Coating	Ug Insulating glass	g	Uf	Psi	Ň	Thermal certif.	Rw	υ	Ctr	Sound certif.
4 // 4bESG/12Kr/4/12Kr/b4ESG	100/3A1	lso	ECLAZ	0.5	59%	0.92	0.028	0.62	YES	39*	-2	-8	NO
		Alu		0.5	59%	0.92	0.046	0.67					
4 // 3bESG/10Kr/2TVG/10Kr/b3ESG	100/37F	Iso	ECLAZ	0.6	60%	0.94	0.027	0.70	YES	37*	-1	-7	NO
		Alu		0.6	60%	0.94	0.040	0.73					
4 // 4bESG/12Ar/4/12Ar/b4ESG	100/3A2	Iso	ECLAZ	0.7	59%	0.92	0.025	0.76	YES	39	-2	-8	YES
		Alu		0.7	59%	0.92	0.041	0.80					
6 // 4bESG/12Ar/4/12Ar/b4ESG	111/3A2	Iso		0.7	59%	0.92	0.025	0.76*	NO	42	-2	-7	YES
		Alu		0.7	59%	0.92	0.041	0.80*					
4 // 3bESG/12Ar/3/14Ar/b4	100/3AD	Iso	ECLAZ	0.7	60%	0.92	0.024	0.76*	YES	42	-2	-7	YES
		Alu		0.7	60%	0.92	0.041	0.80*					
4 // 4bESG/10Ar/3/12Ar/b33.2VSG	100/3HP	Iso	ECLAZ	0.8	59%	0.92	0.027	0.83	YES	40*	-2	-8	NO
		Alu		0.8	59%	0.92	0.045	0.88					
4 // 3bESG/8Ar/3/10Ar/b4	100/3AF	Iso	ECLAZ	0.9	60%	0.94	0.023	0.90	YES	39*	-2	-7	NO
		Alu		0.9	60%	0.94	0.035	0.93					
4 // 6/18Ar/b4	100/2KU	Iso	ECLAZ	1.1	69%	0.94	0.024	0.97	YES	40*	-2	-7	NO
		Alu		1.1	69%	0.94	0.039	1.0					
6 // 6/18Ar/b4	111/2KU	Iso		1.1	69%	0.94	0.024	0.97*	NO	43	-2	-7	YES
		Alu		1.1	69%	0.94	0.039	1.0*					
4 // 4ESG/20Ar/b4	100/2KL	lso	ECLAZ	1.1	71%	0.94	0.022	0.97	YES	39*	-2	-7	NO
		Alu		1.1	71%	0.94	0.036	1.0					
6 // 4ESG/20Ar/b4	111/2KL	Iso		1.1	71%	0.94	0.022	0.97*	NO	42	-2	-7	YES
		Alu		1.1	71%	0.94	0.036	1.0*					

Values for home pure with test certificate

## **ECLAZ**<sup>®</sup>

Daylight is crucial for our human organism, our wellbeing and our health. Therefore, Internorm windows are equipped with premium glass coating ECLAZ<sup>®</sup> as standard. The blue components of the light spectrum are transported through the glass more and ensure up to 10 % more daylight. Compared to conventional market glazing, ECLAZ<sup>®</sup> is offering:

More aesthetics -	colour-neutral outside view, a combination of	Room comfort –	makes living areas even lighter and friendlier			
	function and aesthetics	Energy efficiency –	excellent insulation of interior thus reducing			
More light –	up to 10% more daylight – better for health and wellbeing – a significant advantage especially in the dark winter months*	* !	heating costs - increased energy efficiency in building - up to 11 % less $CO_2$ emissions			
Visual comfort -	for a brilliant view to the outside	* In direct comparison to s	ame giass buildups.			

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