

studio HF 310

TIMBER/ALUMINIUM WINDOW

TECHNICAL DATA:

- design** Flush design in modern square-edged design
- Thermal insulation** Thermal insulation with standard triple glazing and highly thermally insulating edge seal ($U_g = 0.5 \text{ W/m}^2\text{K}$) $U_w = 0.69 \text{ W/m}^2\text{K}$

For best energy efficiency SOLAR+ glazing with $U_g = 0.6 \text{ W/m}^2\text{K}$ and g value 62 %
- Sound insulation** Soundproofing up to 46 dB
- System description** 85 mm construction depth

Classic, square-edged and straight exterior and interior design

Highly heat insulating thermal foam (HCFC, HFC and FC free)

Fully concealed hardware

Drainage either visible or concealed

Standard security

triple gasket system

Suitable in its standard version for passive houses acc. to TU Graz

I-tec



INGENIOUS GLAZING SYSTEM
Glass panes glued to the timber frame ensure good structural integrity and high torsion.



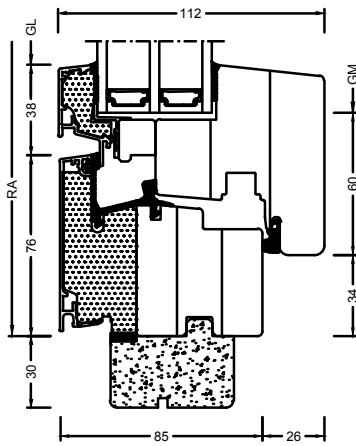
FLUSH DESIGN
Modern square-edged design outside and inside, three-sided integration into facade available.



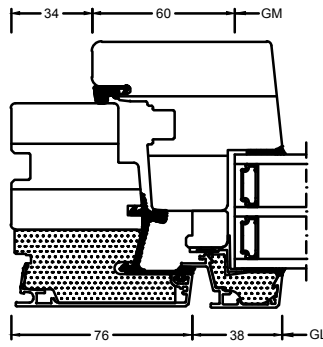
TRIPLE GASKET SYSTEM
Three continuous gasket levels without interruption ensure high impermeability

Sections

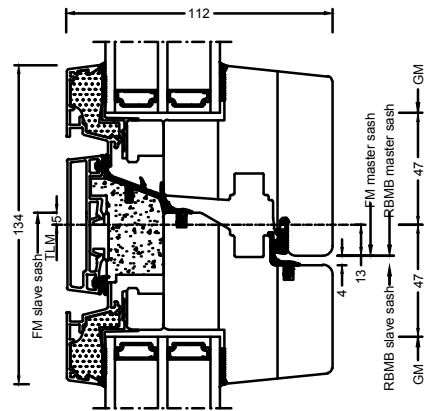
Vertical section



Horizontal section

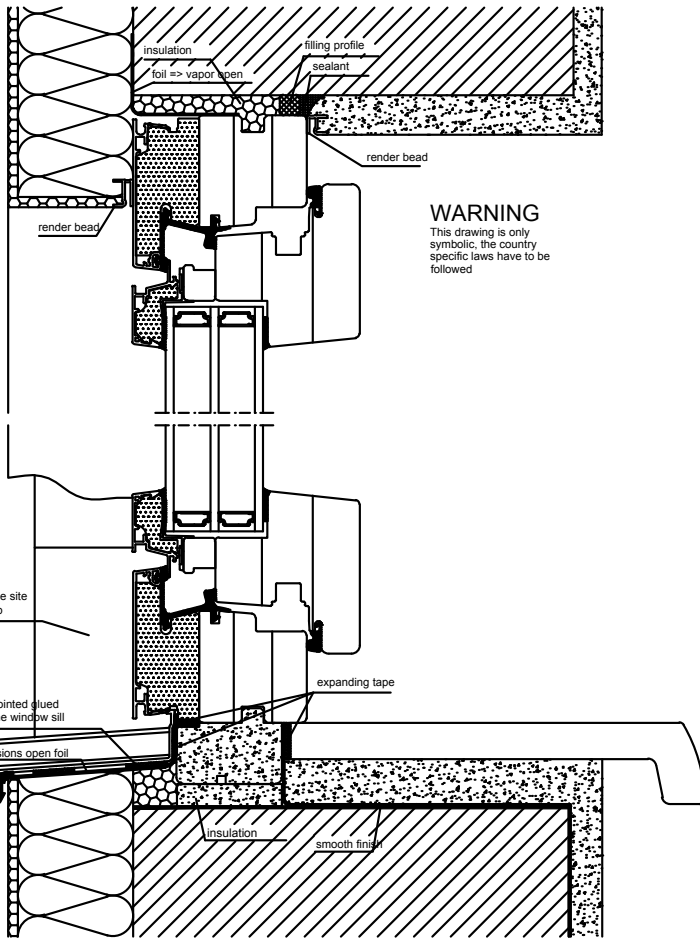


Flying mullion section



Construction connections

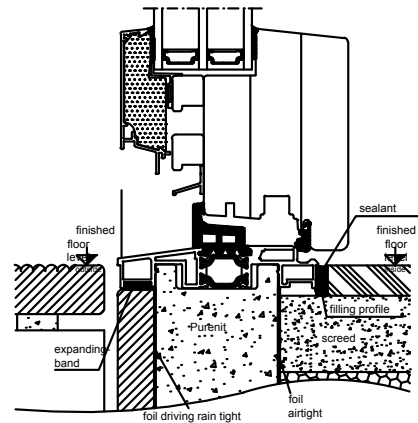
render inside and insulation outside.
 sill on the bottom.



WARNING
 This drawing is only symbolic, the country specific laws have to be followed

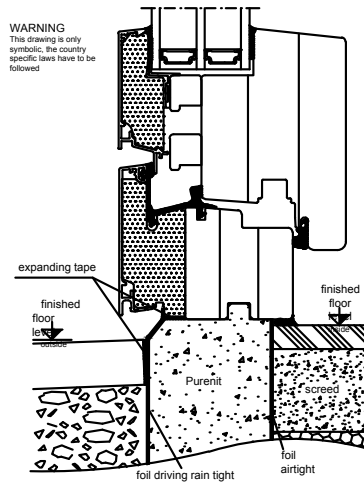
building connection
 with Alu-threshold 30mm.

WARNING
 This drawing is only symbolic, the country specific laws have to be followed

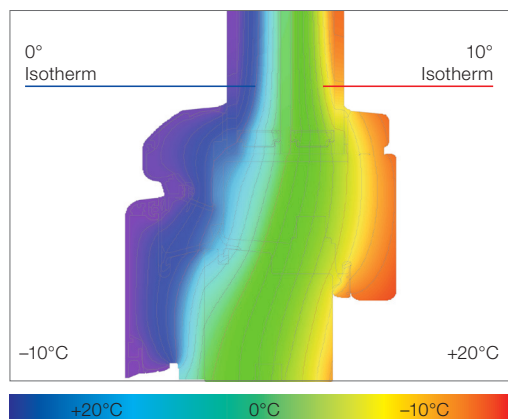


building connection
 with Purenit profile bottom

WARNING
 This drawing is only symbolic, the country specific laws have to be followed



ATTENTION! The depicted drawing is symbolical only, please adhere to the national fitting guidelines such as ÖNORM B5320 in its respective valid version.



Optimal isotherm gradient to ensure low amounts of condensation.

Due to the deep glass position, tremendous construction depth and the directly glued window panes glazing LIGHT ($U_g = 0.5 \text{ W/m}^2\text{K}$) can achieve a sensational U_w value of $0.69 \text{ W/m}^2\text{K}$ (with ISO spacer).

Technical information

- Timber frame with double peg joint
- Aluminium profiles cut in mitre with UPVC and aluminium brackets held in place and glued over the whole surface
- Outside: anodised, RAL, highly weather-resistant structure, metallic decor and timber decor colours available in aluminium
- Inside: 11 standard timber colours - RAL and NCS available
- 3 continuous gasket levels made of EPDM and Q-LON gaskets
- Glazing thickness 48 mm
- Glass panes glued all around and sealed with transparent silicone

Values

System	Glass Construction	Glass Code	Spacer	Coating	U_g	U_f	Ψ_i	U_w	Thermal Certif.	R_w	C	Ctr	Sound Certif.
HF310	4b/18Ar/4/18Ar/b	3N2	Iso	light	0.5	0.86	0.033	0.69	YES*	35	-1	-4	YES*
				solar+	0.6	0.86	0.033	0.76	NO				
			Alu	light	0.5	0.86	0.072	0.9	YES*				
				solar+	0.6	0.86	0.072	0.86	NO				
	6b/18Ar/4/16Ar/b	33U	Iso	light	0.6	0.86	0.036	0.77	YES*	39	-1	-5	YES*
				solar+	0.7	0.86	0.036	0.84	NO				
			Alu	light	0.6	0.86	0.079	0.88	YES*				
				solar+	0.7	0.86	0.079	0.95	NO				
	44b.2/14Ar/4/12A	3FH	Iso	light	0.7	0.86	0.047	0.87	YES*	46	-1	-5	YES*
				solar+	0.8	0.87	0.047	0.94	NO				
			Alu	light	0.7	0.86	0.092	0.98	YES*				
				solar+	0.8	0.87	0.092	1.05	NO				
4b/16Ar/4/15Ar/b	34N	Iso	light	0.6	0.86	0.036	0.77	NO	42	-2	-5	YES*	
			solar+	0.7	0.86	0.036	0.84						
		Alu	light	0.6	0.86	0.079	0.88						
			solar+	0.7	0.86	0.079	0.95						

*Test certificates in ambiente - values for home pure and studio are identical