



# HF 510 TIMBER-ALUMINIUM-WINDOW



## CHARACTERISTICS



**Thermal insulation** (in  $W/m^2K$ )  
 $U_w$  up to 0,65



**Sound reduction** (in dB)  
up to 35 - 44



**Security**  
up to RC1N, RC2



**Locking**  
fully concealed

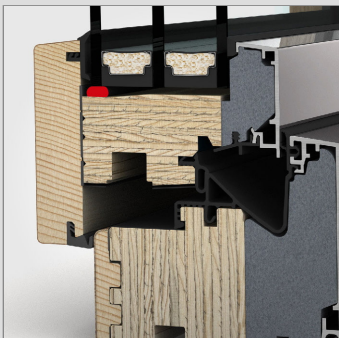


**Installation Depth** (in mm)  
85

**I-tec Core**

**I-tec Glazing**

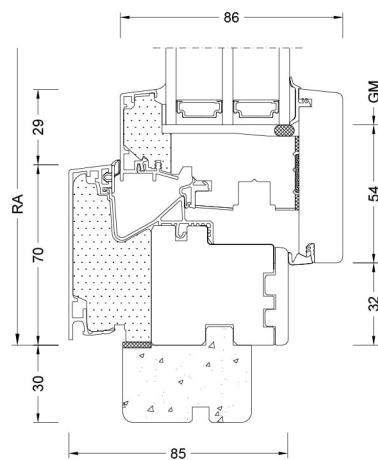
**I-tec Connect**



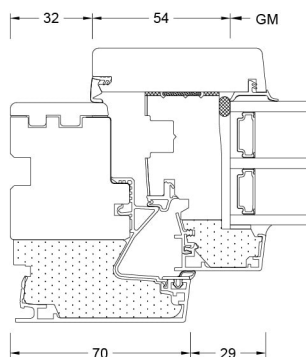
The unique I-tec Core technology of thin, laminated timber layers, makes the HF 510 exceptionally stable and robust, allowing the manufacture of even larger window sizes. The combination of timber, insulating foam and aluminium cladding provides superior thermal performance. Sustainably sourced timber options and a wide choice of colours offers unlimited interior design possibilities.

## Cuts

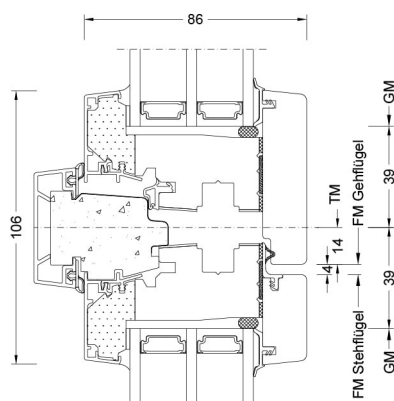
Senkrecht / Vertical



Waagrecht / Horizontal



Stulp / Flying mullion



BM Bestellmaß / Ordering size  
 FM G Flügelmaß Gehflügel / Sash size master sash  
 FM S Flügelmaß Stehflügel / Sash size slave sash  
 FOK Fußbodenoberkante / Finished floor level

GM Glasmaß / Glass size  
 RA Rahmenaußenmaß / Outside frame size  
 TM Teilungsmaß / Division size

## Values

Glass Build Up	GC	Coating	AH	U <sub>g</sub>	g	U <sub>f</sub>	Psi	U <sub>w</sub>	R <sub>w</sub>	C	Ctr	Certificate - Thermal Performance	Certificate - Sound
4b/18Ar/4/18Ar/b4	3N2	ECLAZ®	Iso Alu	0,5 0,5	60 60	0,94 0,94	0,04 0,089	0,72 0,85	35 35	-2 -2	-5 -5	✓ ✓	✓ ✓
6b/18Ar/4/16Ar/b4	33U	ECLAZ®	Iso Alu	0,6 0,6	0,59 0,59	0,94 0,94	0,043 0,092	0,8 0,93	39 39	-2 -2	-6 -6	✓ ✓	✓ ✓
44b.2(VSG-S)/ 15Ar/4/12Ar/b44.2(VSG-S)	3FH	ECLAZ®	Iso Alu	0,7 0,7	55 55	0,94 0,94	0,053 0,104	0,9 1	44 44	-1 -1	-5 -5	✓ ✓	✓ ✓
4b/18Ar/4/14Ar/b44.2(VSG-S)	39K	ECLAZ®	Iso Alu	0,6 0,6	60 60	0,94 0,94	0,043 0,092	0,8 0,93	41 41	-1 -1	-6 -6	✓ ✓	✓ ✓

**ECLAZ®** – Enjoy the many benefits of the Internorm **ECLAZ® Premium Coating****More light & transparency**

- The special coating allows more daylight to enter the interior, therefore making it brighter and friendlier.
- Enjoy a clearer view of the outside. The external reflection or mirror effect is also low and the glass is colour-neutral from the outside.

**Improved health & productivity**

- ECLAZ® helps to regulate your inner balance. Blue light from the sun helps to regulate your natural sleep and wake cycle, elevate moods and increase the feeling of well being.

**Increased happiness & well-being**

- Daylight has a balanced light spectrum and regulates the serotonin balance, which is responsible for well-being and life energy. Halogen bulbs, fluorescent tubes and LEDs lack these important light frequencies. ECLAZ® floods the house with daylight.

- 77% more light transmission of triple glazing with ECLAZ® helps to boost health and well-being, especially in the darker autumn and winter months.

**Better energy efficiency & higher cost savings**

- Less heat loss: ECLAZ® provides excellent thermal insulation, therefore reducing heating costs.
- Greater energy savings: 60% improvement in solar gain with triple glazing resulting in lower heating costs and higher energy efficiency.

**Get more as standard**

- ECLAZ® is fitted as standard in every Internorm window.
- No additional costs. You enjoy the benefits of this premium glass coating without having to pay more.