



ambiente

**Internorm®**  
Windows – Doors

# HF 410 TIMBER-ALUMINIUM-WINDOW



## CHARACTERISTICS



**Thermal insulation** (in  $W/m^2K$ )  
 $U_w$  up to 0,64



**Sound reduction** (in dB)  
up to 33 - 46



**Security**  
up to RC1N, RC2

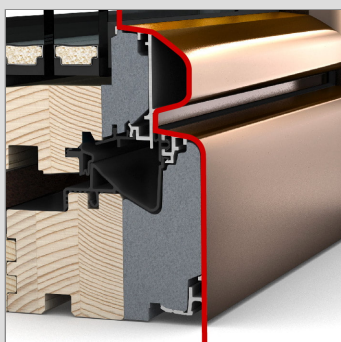


**Locking**  
fully concealed



**Installation Depth** (in mm)  
85

**I-tec Glazing**

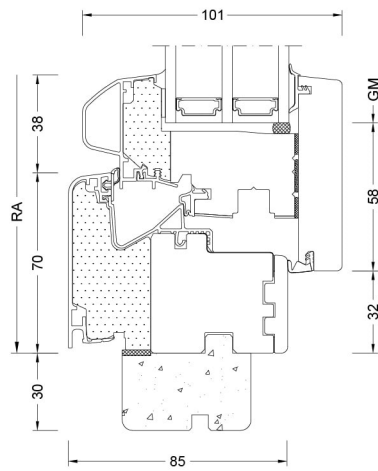


The wide range of colours and timber options available for the HF 410 timber-aluminium window offers you countless possibilities for creating a harmonious living space. In particular, darker shades of brown in combination with antique furniture and old wooden floors create an elegant living environment. The tasteful elegance is emphasised by concealed hardware. The timber-thermo-foam-aluminium composite ensures the best thermal insulation with a slim construction depth.

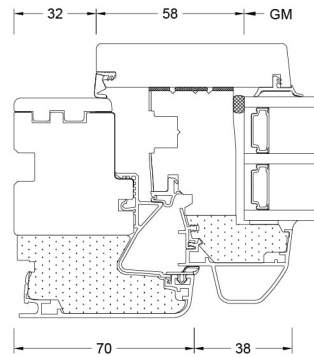


## Cuts

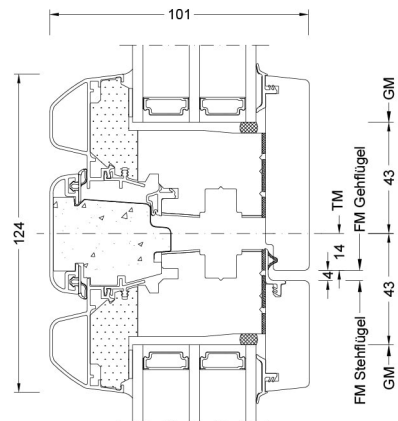
Senkrecht / Vertical



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 | Low-Carbon iplus | Iso<br>Alu | 0,5<br>0,5     | 53<br>53 | 0,91<br>0,91   | 0,036<br>0,075 | 0,71<br>0,81   | 35<br>35       | -2<br>-2 | -6<br>-6 | ✓<br>✓                            | ✓<br>✓              |
| 6b/18Ar/4/16Ar/b4                     | 33U | Low-Carbon iplus | Iso<br>Alu | 0,5<br>0,5     | 52<br>52 | 0,91<br>0,91   | 0,039<br>0,081 | 0,72<br>0,82   | 39<br>39       | -2<br>-2 | -6<br>-6 | ✓<br>✓                            | ✓<br>✓              |
| 44b.2(VSG-S)/15Ar/4/12Ar/b44.2(VSG-S) | 3FH | Low-Carbon iplus | Iso<br>Alu | 0,6<br>0,6     | 47<br>47 | 0,91<br>0,91   | 0,049<br>0,093 | 0,81<br>0,93   | 46<br>46       | -1<br>-1 | -4<br>-4 | ✓<br>✓                            | ✓<br>✓              |
| 4b/18Ar/4/14Ar/b44.2(VSG-S)           | 39K | Low-Carbon iplus | Iso<br>Alu | 0,6<br>0,6     | 52<br>52 | 0,91<br>0,91   | -<br>-         | -<br>-         | 42<br>42       | -3<br>-3 | -7<br>-7 | x<br>x                            | ✓<br>✓              |
| 6b/15Ar/4/14Ar/b44.2(VSG-S)           | 34P | Low-Carbon iplus | Iso<br>Alu | 0,6<br>0,6     | 51<br>51 | 0,91<br>0,91   | -<br>-         | -<br>-         | 41<br>41       | -2<br>-2 | -6<br>-6 | x<br>x                            | ✓<br>✓              |



## Internorm takes responsibility for the environment and climate

### Internorm's use of low-carbon iplus glass saves 10,000 t of CO<sub>2</sub> eq annually

Glass is an fundamental component in window production. As Europe's leading window brand, we take our responsibility seriously, and incorporate low-carbon iplus insulating glazing in our product range as standard.

In order to reduce greenhouse gas emissions, we analysed the entire low-carbon float glass production chain. This included activities before, during and after the actual manufacturing process, right through to delivery to the customer.

**The result is a 4 mm thick, low-carbon float glass with a reduced carbon footprint of 5.5 kg CO<sub>2</sub> eq/m<sup>2</sup> that delivers emission savings of over 45%.**

### What turns low-carbon iplus glass into thermally insulated glass?

- Use of low-emission raw materials
- Use of highly efficient melting furnaces including electric boosting
- At least 50% recycled content, to conserve valuable raw materials
- Utilisation of renewable energies
- Optimised transport throughout the entire supply chain