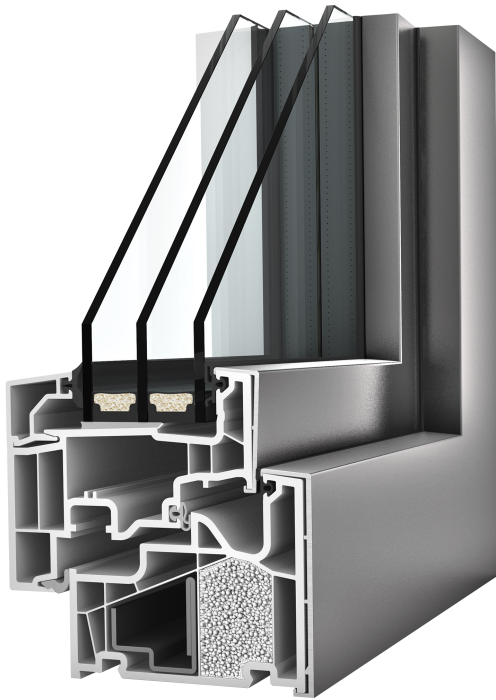






# KF 410 UPVC-ALUMINIUM-WINDOW





## CHARACTERISTICS

 **Thermal insulation** (in  $W/m^2K$ )  
 $U_w$  up to 0,62

 **Sound reduction** (in dB)  
up to 34 - 47

 **Security**  
up to RC 2

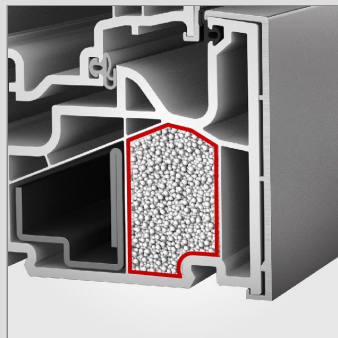
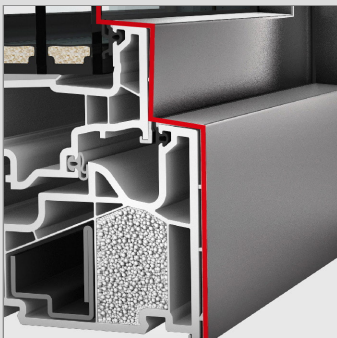
 **Locking**  
fully concealed

 **Installation Depth** (in mm)  
93

**I-tec Glazing**

**I-tec Insulation**

**I-tec Decor**

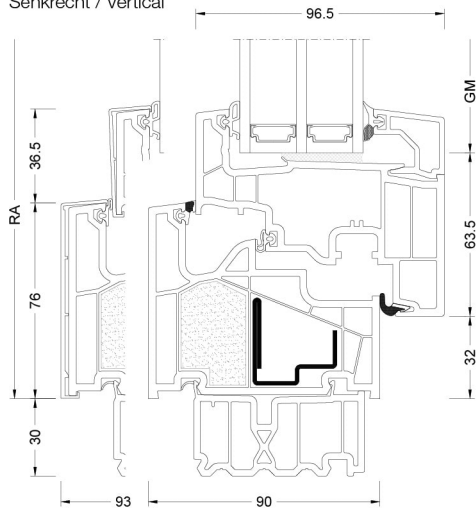


The square design of the frame and sash is harmonised with the home pure design style. The weather-resistant aluminium cladding can be designed in many colours. Thanks to I-tec Insulation, the frame is insulated all round and thermal insulation is significantly improved. The new I-tec Decor digital printing technology provides you with a wide range of designs to customise the inside. Also available as a uPVC only window.

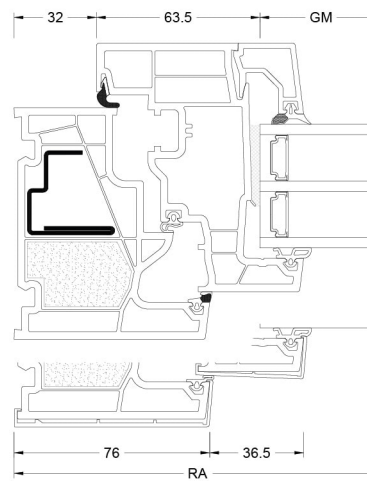


**Cuts**

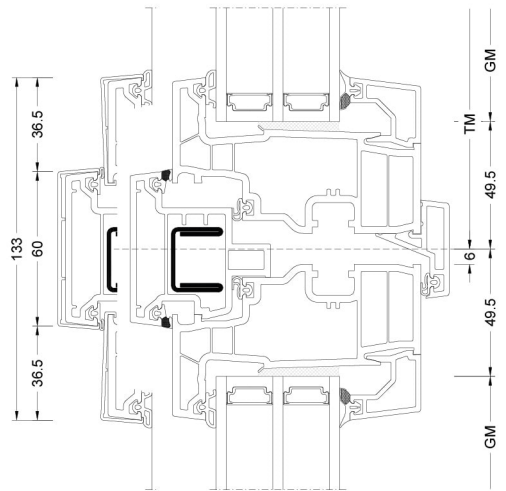
Senkrecht / Vertical



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 <sup>®</sup>	Iso Alu	0,5 0,5	60% 60%	0,92 0,92	0,033 0,073	0,71 0,81	34 34	-2 -2	-6 -6	✓ ✓	✓ ✓
6b/18Ar/4/16Ar/b4	33U	ECLAZ <sup>®</sup>	Iso Alu	0,5 0,5	59% 59%	0,92 0,92	0,033 0,073	0,71 0,81	40 40	-2 -2	-6 -6	✓ ✓	✓ ✓
4b/16Ar/4/15Ar/ b44.2(VSG-S)	34N	ECLAZ <sup>®</sup>	Iso Alu	0,6 0,6	60% 60%	0,92 0,92	0,033 0,073	0,78 0,88	42 42	-3 -3	-8 -8	✓ ✓	✓ ✓
6b/15Ar/4/14Ar/ b44.2(VSG-S)	34P	ECLAZ <sup>®</sup>	Iso Alu	0,6 0,6	59% 59%	0,92 0,92	0,033 0,073	0,78 0,88	43 43	-2 -2	-6 -6	✓ ✓	✓ ✓
44b.2(VSG-S)/18Ar/4/16Ar/ b44.2(VSG-S)	3ND	ECLAZ <sup>®</sup>	Iso Alu	0,5 0,5	55% 55%	0,92 0,92	0,033 0,073	0,71 0,81	47 47	-1 -1	-4 -4	✓ ✓	✓ ✓
44b.2(VSG-S)/15Ar/4/12Ar/b44.2(VSG-S)	3FH	ECLAZ <sup>®</sup>	Iso Alu	0,6 0,6	55% 55%	0,92 0,92	0,033 0,073	0,78 0,88	45 45	-1 -1	-5 -5	✓ ✓	× ×

**Without Foam insert**

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 <sup>®</sup>	Iso Alu	0,5 0,5	60% 60%	1,1 1,1	0,033 0,073	0,77 0,87	34 34	-2 -2	-6 -6	✓ ✓	× ×
6b/18Ar/4/16Ar/b4	33U	ECLAZ <sup>®</sup>	Iso Alu	0,5 0,5	59% 59%	1,1 1,1	0,033 0,073	0,77 0,87	40 40	-2 -2	-6 -6	✓ ✓	× ×
4b/16Ar/4/15Ar/ b44.2(VSG-S)	34N	ECLAZ <sup>®</sup>	Iso Alu	0,6 0,6	60% 60%	1,1 1,1	0,033 0,073	0,84 0,93	42 42	-3 -3	-8 -8	✓ ✓	× ×
6b/15Ar/4/14Ar/b44.2(VSG-S)	34P	ECLAZ <sup>®</sup>	Iso Alu	0,6 0,6	59% 59%	1,1 1,1	0,033 0,073	0,84 0,93	43 43	-2 -2	-6 -6	✓ ✓	× ×
44b.2(VSG-S)/18Ar/4/16Ar/ b44.2(VSG-S)	3ND	ECLAZ <sup>®</sup>	Iso Alu	0,5 0,5	55% 55%	1,1 1,1	0,033 0,073	0,77 0,87	47 47	-1 -1	-4 -4	✓ ✓	× ×
44b.2(VSG-S)/15Ar/4/12Ar/b44.2(VSG-S)	3FH	ECLAZ <sup>®</sup>	Iso Alu	0,6 0,6	55% 55%	1,1 1,1	0,033 0,073	0,84 0,93	45 45	-1 -1	-5 -5	✓ ✓	× ×

**Insulating Foam Corner**

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 <sup>®</sup>	Iso Alu	0,5 0,5	60% 60%	0,85 0,85	0,033 0,073	0,69 0,79	34 34	-2 -2	-6 -6	✓ ✓	× ×
6b/18Ar/4/16Ar/b4	33U	ECLAZ <sup>®</sup>	Iso Alu	0,5 0,5	59% 59%	0,85 0,85	0,033 0,073	0,69 0,79	40 40	-2 -2	-6 -6	✓ ✓	× ×
4b/16Ar/4/15Ar/ b44.2(VSG-S)	34N	ECLAZ <sup>®</sup>	Iso Alu	0,6 0,6	60% 60%	0,85 0,85	0,033 0,073	0,76 0,86	42 42	-3 -3	-8 -8	✓ ✓	× ×
6b/15Ar/4/14Ar/b44.2(VSG-S)	34P	ECLAZ <sup>®</sup>	Iso Alu	0,6 0,6	59% 59%	0,85 0,85	0,033 0,073	0,76 0,86	43 43	-2 -2	-6 -6	✓ ✓	× ×
44b.2(VSG-S)/18Ar/4/16Ar/b44.2(VSG-S)	3ND	ECLAZ <sup>®</sup>	Iso Alu	0,5 0,5	55% 55%	0,85 0,85	0,033 0,073	0,69 0,79	47 47	-1 -1	-4 -4	✓ ✓	× ×



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
44b.2(VSG-S)/15Ar/4/12Ar/b44.2(VSG-S)	3FH	ECLAZ®	Iso Alu	0,6 0,6	55% 55%	0,85 0,85	0,033 0,073	0,76 0,86	45 45	-1 -1	-5 -5	✓ ✓	× ×

**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.