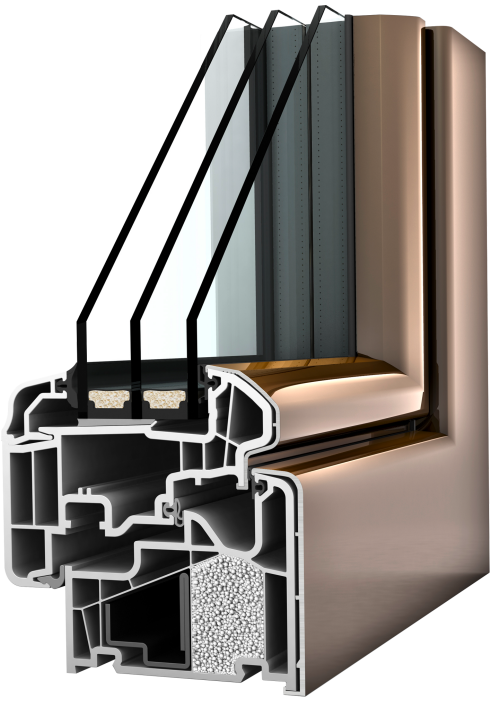
ambiente

Internorm
Windows – Doors

KF 410 UPVC-ALUMINIUM-WINDOW



CHARACTERISTICS

Thermal insulation (in W/m²K)
U_w up to 0,62

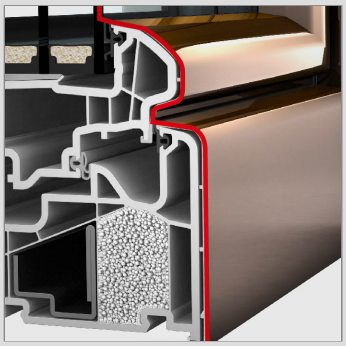
Sound reduction (in dB)
up to 34 - 47

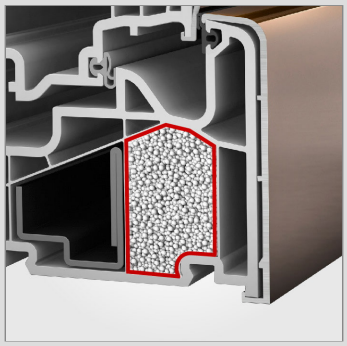
Security
up to RC 2

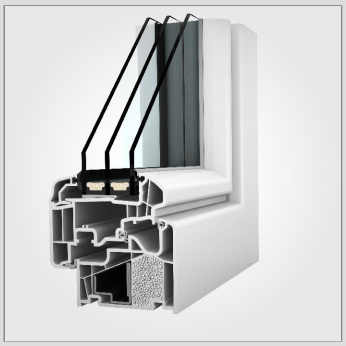
Locking
fully concealed

Installation Depth (in mm)
93

I-tec Glazing
I-tec Insulation
I-tec Decor







The profiled edges of the frame and sash create a classic and timeless elegance. The aluminium cladding on the outside can be designed in many colours. I-tec Insulation reliably insulates the frame and significantly improves thermal insulation. The all-round bonding of the glass pane also makes the window stable and secure. The new I-tec Decor digital printing technology enables a wide range of design options on the inside. Also available as a uPVC only window.

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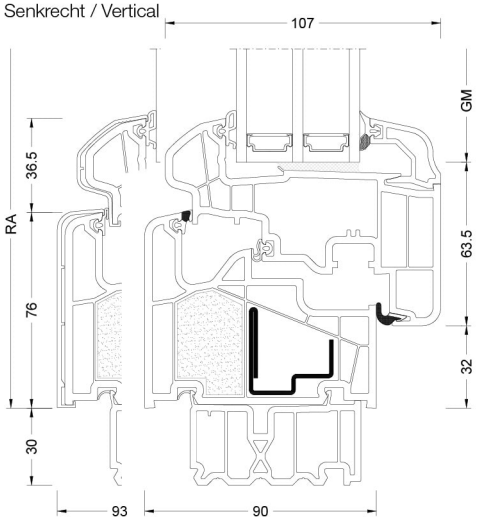
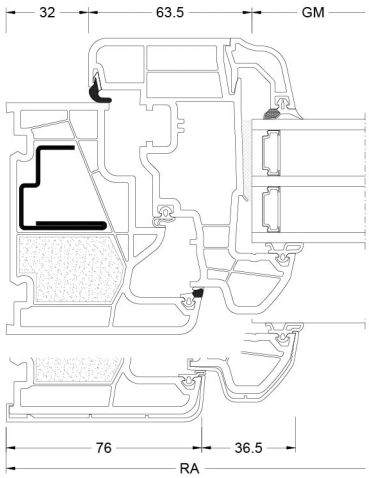
Cuts

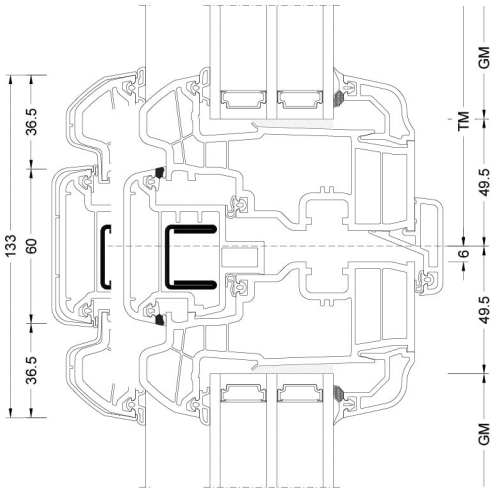
Senkrecht / Vertical



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

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Values

Glass Build Up	GC	Coating	AH	U_g	g	U_f	Psi	U_w	R_w	C	Ctr	Certificate - Thermal Performance	Certificate - Sound
4b/18Ar/4/18Ar/b4	3N2	Low-Carbon iplus	Iso	0,5	53	0,92	0,033	0,71	34	-2	-6	✓	✓
6b/18Ar/4/16Ar/b4	33U	Low-Carbon iplus	Iso	0,5	52	0,92	0,033	0,71	40	-2	-6	✓	✓
4b/16Ar/4/15Ar/ b44.2(VSG-S)	34N	Low-Carbon iplus	Iso	0,6	52	0,92	0,033	0,78	42	-3	-8	✓	✓
6b/15Ar/4/14Ar/ b44.2(VSG-S)	34P	Low-Carbon iplus	Iso	0,6	51	0,92	0,033	0,78	43	-2	-6	✓	✓
44b.2(VSG-S)/18Ar/4/16Ar/ b44.2(VSG-S)	3ND	Low-Carbon iplus	Iso	0,5	47	0,92	0,033	0,71	47	-1	-4	✓	✓
44b.2(VSG-S)/15Ar/4/12Ar/b44.2(VSG-S)	3FH	Low-Carbon iplus	Iso	0,6	47	0,92	0,033	0,78	45	-1	-5	✓	✓

Without Foam insert

Glass Build Up	GC	Coating	AH	U_g	g	U_f	Psi	U_w	R_w	C	Ctr	Certificate - Thermal Performance	Certificate - Sound
4b/18Ar/4/18Ar/b4	3N2	Low-Carbon iplus	Iso	0,5	53	1,1	0,033	0,77	34	-2	-6	✓	×
6b/18Ar/4/16Ar/b4	33U	Low-Carbon iplus	Iso	0,5	52	1,1	0,033	0,77	40	-2	-6	✓	×
4b/16Ar/4/15Ar/ b44.2(VSG-S)	34N	Low-Carbon iplus	Iso	0,6	52	1,1	0,033	0,84	42	-3	-8	✓	×
6b/15Ar/4/14Ar/b44.2(VSG-S)	34P	Low-Carbon iplus	Iso	0,6	51	1,1	0,033	0,84	43	-2	-6	✓	×
44b.2(VSG-S)/18Ar/4/16Ar/ b44.2(VSG-S)	3ND	Low-Carbon iplus	Iso	0,5	47	1,1	0,033	0,77	47	-1	-4	✓	×
44b.2(VSG-S)/15Ar/4/12Ar/b44.2(VSG-S)	3FH	Low-Carbon iplus	Iso	0,6	47	1,1	0,033	0,84	45	-1	-5	✓	✓

Insulating Foam Corner

Glass Build Up	GC	Coating	AH	U_g	g	U_f	Psi	U_w	R_w	C	Ctr	Certificate - Thermal Performance	Certificate - Sound
4b/18Ar/4/18Ar/b4	3N2	Low-Carbon iplus	Iso	0,5	53	0,85	0,033	0,69	34	-2	-6	✓	×
6b/18Ar/4/16Ar/b4	33U	Low-Carbon iplus	Iso	0,5	52	0,85	0,033	0,69	40	-2	-6	✓	×
4b/16Ar/4/15Ar/ b44.2(VSG-S)	34N	Low-Carbon iplus	Iso	0,6	52	0,85	0,033	0,76	42	-3	-8	✓	×
6b/15Ar/4/14Ar/b44.2(VSG-S)	34P	Low-Carbon iplus	Iso	0,6	51	0,85	0,033	0,76	43	-2	-6	✓	×
44b.2(VSG-S)/18Ar/4/16Ar/b44.2(VSG-S)	3ND	Low-Carbon iplus	Iso	0,5	47	0,85	0,033	0,69	47	-1	-4	✓	×
44b.2(VSG-S)/15Ar/4/12Ar/b44.2(VSG-S)	3FH	Low-Carbon iplus	Iso	0,6	47	0,85	0,033	0,76	45	-1	-5	✓	✓

Internorm takes responsibility for the environment and climate

Internorm's use of low-carbon iplus glass saves 10,000 t of CO_2 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_2 eq/m^2 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

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