CHROMATECH ultra

Value for money

CHROMATECH ultra - Long-lasting and optimal IG-unit solution

Characteristics for "Warm edge"	CHROMATECH ultra Spacer Bar
Thermal values	• Low thermal transmittance • Outside stainless steel = 15 W/mK • Inside polycarbonate = 0,24 W/mK • Low Ψ (Psi) value • Higher surface temp. on the glass • Minimal condensation • Uw improvement of 0.1-0.2 W/m²K
IG-unit System	• Minimal system risk • Fulfilment of EN 1279 part 2 and 3 • No chemical condensation (Fogging) • High frame stability • Minimal shape and material changes secures long durability • High UV-resistance
Workability	• Bending with empty spacer bar • Bending with prefilled spacer bar • High productivity • Frames with corner keys • Also suitable for models • Easy to fill - side and back are possible
Spacer Bar / System cost	• Long lifetime • Excellent value for money • Flexible easy production

GLASS ALLIANCE

CHROMATECH ultra

Considerably reduced cold-bridging in the IG-unit

Prevents:
- Condensation on the IG-unit & the Window rabbet
- Consequently damage on frame in shape of fungus
- Reduction in heat loss (Uw value) 0.1-0.2 W/m²K

CHROMATECH ultra - the ultimate solution

ROLLTECH
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Your Double Glazing/Window partner:

ROLLTECH

ROLLTECH A/S - an Alu-Pro Group Company

Stainless steel spacer
with polycarbonate top

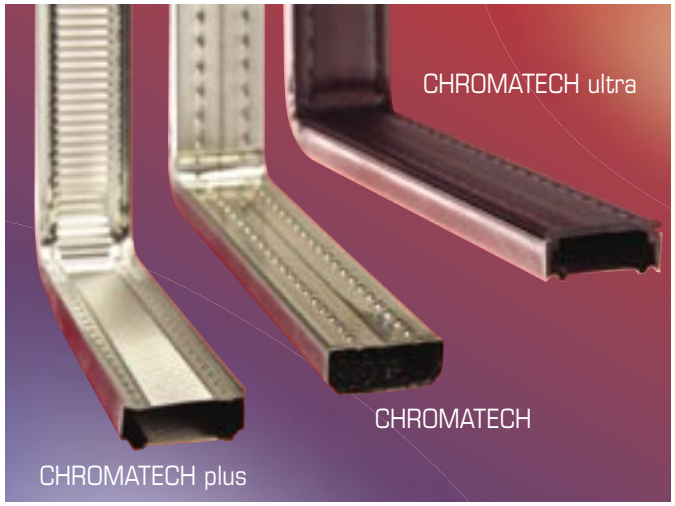
CHROMATECH ultra

- WARM EDGE for the modern window

CHROMATECH ultra

Condensation can be minimized - consequently damage can be avoided!

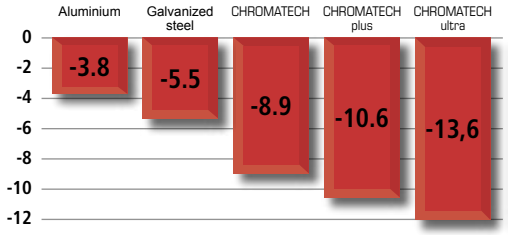
ROLLTECH has 3 ranges of WARM EDGE spacer bars in stainless steel:



Critical outdoor temperature in °C, at which condensation begins on the inside.

Example:
Metal-frame
Uf = 2.05 W/m²K

Inside:
20° C, 50% RH,
dew point 9.3°C



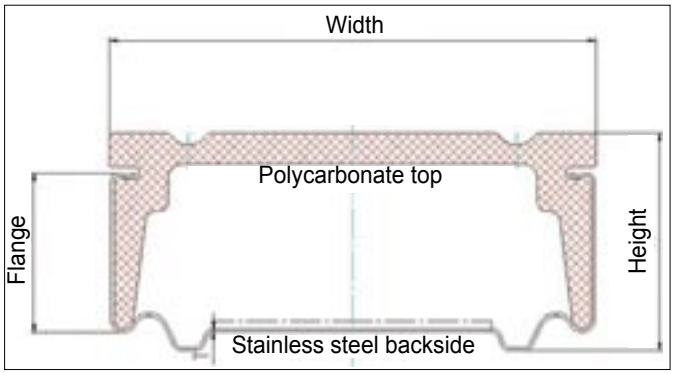
ROLLTECH offers more!

- More than 20 years user experience
- Short delivery time
- ISO 9001

Stainless Steel spacer bars are used with the best references in the façade industry.

CHROMATECH ultra

- Wellknown stainless steel technology combined with polycarbonate top
- High spacer stability and very strong corners enable a smooth production flow
- Can be bended on all benders supplied today. (Saw for stainless steel)
- Excellent corner giving optimal conditions for butyle application



TYPE	WIDTH	HEIGHT
CHROMATECH ultra 8	7,5	7.0
CHROMATECH ultra 10	9.5	7.0
CHROMATECH ultra 12	11.5	7.0
CHROMATECH ultra 14	13.5	7.0
CHROMATECH ultra 15	14.5	7.0
CHROMATECH ultra 16	15.5	7.0
CHROMATECH ultra 18	17.5	7.0
CHROMATECH ultra 20	19.5	7.0
CHROMATECH ultra 24	23,5	7.0

- Can be supplied in RAL colours 7035 (light grey), 7040 (window grey), 8003 (clay brown), 8016 (mahogany brown) and 9004 (black).

Window - Uw - calculation after EN 10077:

$$U_w = \frac{U_g \cdot A_g + U_f \cdot A_f + \Psi \cdot l}{A_g + A_f}$$

Thermal data for CHROMATECH ultra:
Ψ - values for spacer bars for different representative frame systems as defined in the ift guideline WA-08/1 “Thermally improved spacers - Part 1: Determination of the representative psi values for window frame profiles”.

Double IG-unit: 4/16/4 with Ug = 1,1 W/m²K

Frame	Spacer Bar	Ψ - values in W/mK
Aluminium	Aluminium	0,111
	CHROMATECH plus	0,067
	CHROMATECH ultra	0,051
Wood	Aluminium	0,081
	CHROMATECH plus	0,052
	CHROMATECH ultra	0,041
PVC	Aluminium	0,077
	CHROMATECH plus	0,051
	CHROMATECH ultra	0,041

Triple IG-unit: 4/12/4/12/4 with Ug = 0,7 W/m²K

Frame	Spacer Bar	Ψ - values in W/mK
Aluminium	Aluminium	0,111
	CHROMATECH plus	0,063
	CHROMATECH ultra	0,045
Wood	Aluminium	0,086
	CHROMATECH plus	0,052
	CHROMATECH ultra	0,040
PVC	Aluminium	0,075
	CHROMATECH plus	0,048
	CHROMATECH ultra	0,038

PS. This directive also governs the area of validity and application of the representative psi values. In order to avoid rounding errors, the psi values in the data sheet have been given to 0.001 W/mK. The method used for the arithmetic determination of the psi values has an accuracy of ±0.003 W/mK. Differences of less than 0.005 W/mK are not significant.

Please note: Ψ - value depends on many factors:

- Actual position of IG-unit in the frame
- Uf - value of the window frame
- Ug - value of the IG-unit