

CHROMATECH ultra

Value for money

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

Characteristics for "Warm edge"	CHROMATECH ultra Spacer Bar
Thermal values	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • No system risk • Fulfilment of EN 1279 part 2 and 3 • No chemical condensation (Fogging) • High frame stability • No shape and material changes secures long durability
Workability	<ul style="list-style-type: none"> • Frames with corner keys • Bending with empty spacer bar* • Bending with prefilled spacer bar* • High productivity • Also suitable for models • Accessories: Connectors and corner keys • Can be supplied in all NCS and RAL colours
Spacer Bar / System cost	<ul style="list-style-type: none"> • Excellent value for money

* Bending machine with bending equipment for stainless steel spacer bar

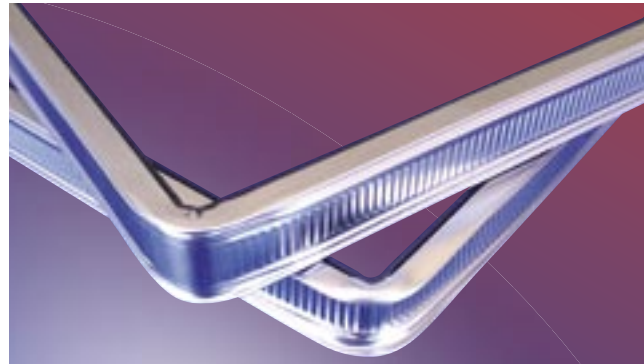


CHROMATECH ultra

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 optimal solution



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Your Double Glazing/Window partner:



ROLLTECH A/S - an Alu-Pro Group Company



Polycarbonate with stainless steel back united to be an excellent solution

CHROMATECH ultra

WARM EDGE for the modern window



CHROMATECH ultra

Condensation can be minimized - consequently damage can be avoided!

ROLLTECH has 2 complete ranges of spacer bars in stainless steel:

CHROMATECH
CHROMATECH plus



ROLLTECH offers more!

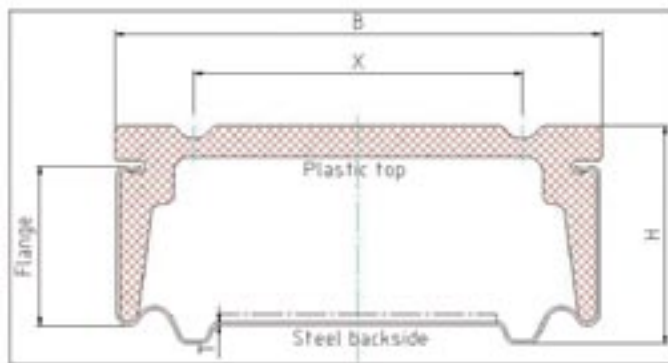
- Rolltech has supplied the CHROMATECH spacer since 1996
- More than 10 years user experience



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

CHROMATECH ultra

- The back side of CHROMATECH plus altered a bit and combined with a polycarbonate top and the result is our new CHROMATECH ultra.
- 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



Long durability
Low Psi value
No system risk

CHROMATECH ultra - the safe choice

Window - U_w - calculation after EN 10077:

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

Thermal data for CHROMATECH ultra:

Ψ - values for CHROMATECH ultra and Aluminium spacer 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 U_g = 1,1 W/m²K

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

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

Frame	Spacer Bar	Ψ - values in W/mK
Aluminium	Aluminium	0,111
	CHROMATECH ultra	0,045
Wood	Aluminium	0,086
	CHROMATECH ultra	0,040
PVC	Aluminium	0,075
	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
- U_f - value of the window frame
- U_g - value of the IG-unit