



TGI connects people and ideas into a global network!

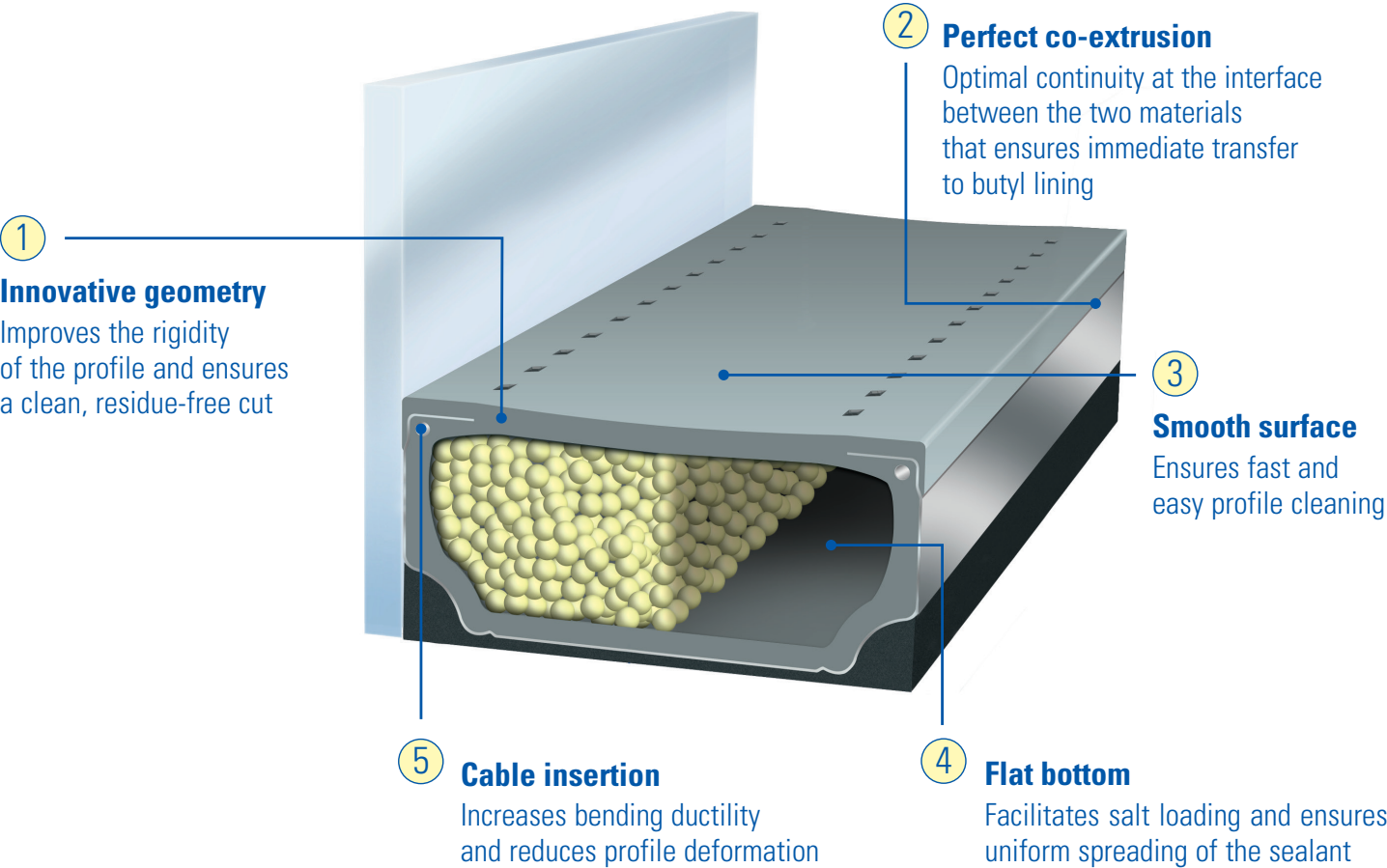
TECHNOFORM **GLASSINSULATION**

TGI SPACER-M: the TOP spacer in all processing phases

From the years of experience acquired by Technoform Glass Insulation in design and extrusion of hybrid Warm Edge profiles, comes the new TGI Spacer-M, a Warm Edge spacer able to respond to the main requirements of the production cycle:

- Greater rigidity
- Greater bending capability
- Reduced cutting imperfections

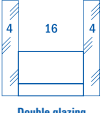
Meeting these requirements inevitably means speeding up Insulated Glass Unit production with significant consequences in terms of **increase in higher production capacity** and **costs reduction**. This is the ambition, therefore, of the new Warm Edge TGI, a spacer rich in meticulous details making the difference:

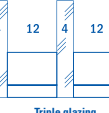


Quality and Benefits

The TGI® Spacer-M meets all the legal requirements in terms of quality and safety such as UNI EN 1279 parts 2, 3 and 6, UNI EN ISO 9001, Cekal and ASTM. The Warm Edge TGI ensures **excellent insulation properties, reduction of mould and condensation** on windows, as well as **higher temperature** on the edge of the glass inside the house, improving its living comfort.

The heat transfer coefficient (Psi) of the TGI®-Spacer M was determined as part of a research project carried out by ift Rosenheim for the purpose of calculating equivalent heat conductivity. The result: the TGI®-Spacer M is measurably more efficient.

 Double glazing U _g =1,1 W/m²K	Equivalent thermal conductivity in W/(m K)		Representative Ψ-value in W/(m K)			
	Double glazing		Alu	Wood/alu	Wood	PVC
	Calculation	0,34	0,051	0,045	0,041	0,041
	Measurement	0,31	0,049	0,044	0,040	0,040

 Triple glazing U _g =0,7 W/m²K	Equivalent thermal conductivity in W/(m K)		Representative Ψ-value in W/(m K)			
	Triple glazing		Alu	Wood/alu	Wood	PVC
	Calculation	0,34	0,046	0,043	0,040	0,039
	Measurement	0,31	0,044	0,042	0,039	0,038

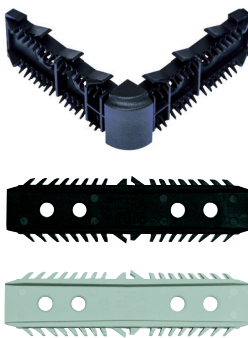
Calculation in accordance with EN ISO 10077-2: the calculation accuracy is ± 0.003 W/(mK) - Deviations of < 0.005 W/(mK) are not significant - Measurement in accordance with EN 12664: the measurement accuracy is 0.001 W/(mK).

Wide range of connectors for a perfect connection

TGI is able to offer a wide choice of connectors developed to the technical specifications of the Spacer-M in order to ensure maximum safety and reliability of the connection. TGI connectors are repeatedly tested under *push-in and pull-out* forces in order to evaluate their performance when subjected to real mechanical stress due to: insulation glass unit production process, transportation and temperature ranges once integral part of the finished product.

New

Besides the allocated connectors currently available in the market, TGI now offers new and innovative **linear plastic connectors** designed to improve the performance of the steel ones at a considerably **lower cost**.

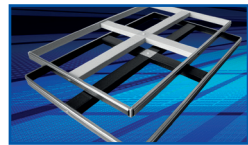


Muntins TGI: ornamental solutions for the best windows

The *Muntins TGI®* are highly energy efficient profiles that can be positioned inside the insulating windows without coming into contact with the glass. Provided with the appropriate accessories (cross connectors and end connectors), the Muntins TGI are aesthetically identical to TGI spacers to allow perfect integration of the two products in the same IG Unit.

Quality and Benefits

The Muntins TGI meet all the legal requirements in terms of quality and safety such as UNI EN 1279 part 6 (fogging test) and UNI EN ISO 4892-2 (UV resistance), including the **same benefits as TGI spacers**.



Extreme cutting precision with the new Warm Blade TGI

The innovative **Warm Blade TGI**, the first cutting blade designed according to the technical specifications of the TGI spacer, was created to overcome the difficulties emerging from the use of blades currently on the market for cutting the Warm Edge. The particular wedge section of the new Warm Blade TGI, its geometry and the distribution of the teeth, ensure **high quality cutting standards**. The innovative *TiCN-RED* treatment, moreover, reduces friction at the blade-spacer contact, **increasing its useful life**.

Benefits

No spacer trimming required ▶ **Reduction in processing times**
Longer lasting blade ▶ **Cost reduction**
Compatible with aluminium profiles ▶ **Versatile**

The **Warm Blade TGI** is available in sizes compatible with the most common profile bending machines on the market.



D. 200 x 32 x 1/0,5 mm



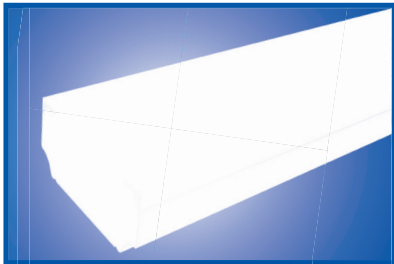
D. 250 x 32 x 1,2 mm

Laser marking: an opportunity for every customer

TGI is the first company to introduce the customization technique directly in the supply process. Laser marking allows TGI to inscribe the customer's brand directly on the spacer, with the possibility to reproduce any type of logo in high definition.

Benefits

TGI laser marking is synonymous of **high definition** and **respect for the environment** (no use of ink).



TGI SPACER-M

TGI spacers

TGI-SPACER M

TGI spacers

Size	Colour	Item code	Cardboard	Steel stillage
8 mm	RAL 7035	100576	2.160 meters	20.520 meters
	RAL 7040	100577		
	RAL 8003	100578		
	RAL 8016	100579		
	RAL 9005	100580		
	RAL 9016	100581		
10 mm	RAL 7035	200183	1.680 meters	15.960 meters
	RAL 7040	200184		
	RAL 8003	200185		
	RAL 8016	200186		
	RAL 9005	200187		
	RAL 9016	200188		
12 mm	RAL 7035	200201	1.440 meters	13.110 meters
	RAL 7040	200202		
	RAL 8003	200203		
	RAL 8016	200204		
	RAL 9005	200205		
	RAL 9016	200206		
14 mm	RAL 7035	200220	1.200 meters	10.830 meters
	RAL 7040	200221		
	RAL 8003	200222		
	RAL 8016	200223		
	RAL 9005	200224		
	RAL 9016	200225		
15 mm	RAL 7035	200238	1.080 meters	10.260 meters
	RAL 7040	200239		
	RAL 8003	200240		
	RAL 8016	200241		
	RAL 9005	200242		
	RAL 9016	200243		
16 mm	RAL 7035	200256	1.080 meters	9.690 meters
	RAL 7040	200257		
	RAL 8003	200258		
	RAL 8016	200259		
	RAL 9005	200260		
	RAL 9016	200261		
18 mm	RAL 7035	200275	960 meters	8.550 meters
	RAL 7040	200276		
	RAL 8003	200277		
	RAL 8016	200278		
	RAL 9005	200279		
	RAL 9016	200280		
20 mm	RAL 7035	200293	840 meters	7.410 meters
	RAL 7040	200294		
	RAL 8003	200295		
	RAL 8016	200296		
	RAL 9005	200297		
	RAL 9016	200298		
22 mm	RAL 7035	200311	720 meters	6.840 meters
	RAL 7040	200312		
	RAL 8003	200313		
	RAL 8016	200314		
	RAL 9005	200315		
	RAL 9016	200316		
24 mm	RAL 7035	100740	720 meters	6.270 meters
	RAL 7040	100741		
	RAL 8003	100742		
	RAL 8016	100743		
	RAL 9005	100744		
	RAL 9016	100745		

MUNTINS TGI

Muntins TGI

Cross-connectors for Muntins

End connectors for Muntins

Size	Colour	Item code	Standard box	Big box
21,5 X 9,5 mm	RAL 7035	100553	714 meters	2.520 meters
	RAL 7040	100554		
	RAL 9005	100555		
21,5 X 11,5 mm	RAL 7035	100547	588 meters	2.058 meters
	RAL 7040	100548		
	RAL 9005	100562		
25,5 X 9,5 mm	RAL 7035	100557	612 meters	2.160 meters
	RAL 7040	100558		
	RAL 9005	100556		
25,5 X 11,5 mm	RAL 7035	100151	504 meters	1.764 meters
	RAL 7040	100146		
	RAL 9005	100152		
31,5 X 9,5 mm	RAL 7035	100561	510 meters	1.800 meters
	RAL 7040	100560		
	RAL 9005	100559		
31,5 X 11,5 mm	RAL 7035	100551	420 meters	1.470 meters
	RAL 7040	100552		
	RAL 9005	100550		
21,5 X 9,5 mm	GREY	100526	500 pcs.	
	BLACK	100529		
21,5 X 11,5 mm	GREY	100521	500 pcs.	
	BLACK	100523		
25,5 X 9,5 mm	GREY	100527	500 pcs.	
	BLACK	100530		
25,5 X 11,5 mm	GREY	100520	500 pcs.	
	BLACK	100524		
31,5 X 9,5 mm	GREY	100528	500 pcs.	
	BLACK	100531		
31,5 X 11,5 mm	GREY	100522	500 pcs.	
	BLACK	100525		
21,5 X 9,5 mm	TRANSPARENT	100532	8.000 pcs.	
	BLACK	100538		
21,5 X 11,5 mm	TRANSPARENT	100535	8.000 pcs.	
	BLACK	100541		
25,5 X 9,5 mm	TRANSPARENT	100533	8.000 pcs.	
	BLACK	100539		
25,5 X 11,5 mm	TRANSPARENT	100536	6.000 pcs.	
	BLACK	100542		
31,5 X 9,5 mm	TRANSPARENT	100534	5.000 pcs.	
	BLACK	100540		
31,5 X 11,5 mm	TRANSPARENT	100537	5.000 pcs.	
	BLACK	100543		

CORNER KEY CONNECTORS

Plastic corner keys	Size	Colour	Item code	Standard box
	8 mm	GREY	100073	5.000 pcs.
		BLACK	100107	
	10 mm	GREY	101592	5.000 pcs.
		BLACK	101601	
	12 mm	GREY	101593	2.000 pcs.
		BLACK	101602	
	14 mm	GREY	101594	2.000 pcs.
		BLACK	101603	
	15 mm	GREY	101595	5.000 pcs.
		BLACK	101604	
Flexible plastic corner keys	16 mm	GREY	101596	2.000 pcs.
		BLACK	101605	
	18 mm	GREY	101597	2.000 pcs.
		BLACK	101606	
	20 mm	GREY	101598	2.000 pcs.
		BLACK	101607	
	22 mm	GREY	101599	3.500 pcs.
		BLACK	101608	
	24 mm	GREY	100082	3.000 pcs.
		BLACK	100116	
Plastic corner keys with hole	8 mm	GREY	100085	5.000 pcs.
		BLACK	100117	
	10 mm	GREY	100086	5.000 pcs.
		ANTHRACITE	100118	
	12 mm	GREY	100087	5.000 pcs.
		ANTHRACITE	100119	
	14 mm	GREY	100088	5.000 pcs.
		ANTHRACITE	100120	
	15 mm	GREY	100089	5.000 pcs.
		ANTHRACITE	100121	
	16 mm	GREY	100090	5.000 pcs.
		ANTHRACITE	100122	
	18 mm	GREY	100091	5.000 pcs.
		ANTHRACITE	100123	
	20 mm	GREY	100092	5.000 pcs.
		ANTHRACITE	100124	
	22 mm	GREY	100093	4.000 pcs.
		ANTHRACITE	100125	
	24 mm	GREY	100094	4.000 pcs.
		BLACK	100126	
	10 mm	GREY	100061	5.000 pcs.
		BLACK	100095	
	12 mm	GREY	100062	5.000 pcs.
		BLACK	100096	
	14 mm	GREY	100063	5.000 pcs.
		BLACK	100097	
	16 mm	GREY	100064	5.000 pcs.
		BLACK	100098	
	18 mm	GREY	100065	4.000 pcs.
		BLACK	100099	
	20 mm	GREY	100066	3.500 pcs.
		BLACK	100100	

Plastic corner keys without hole	10 mm	GREY	100067	5.000 pcs.
		BLACK	100101	
	12 mm	GREY	100068	5.000 pcs.
		BLACK	100102	
	14 mm	GREY	100069	5.000 pcs.
		BLACK	100103	
	16 mm	GREY	100070	5.000 pcs.
		BLACK	100104	
	18 mm	GREY	100071	4.000 pcs.
		BLACK	100105	
	20 mm	GREY	100072	3.500 pcs.
		BLACK	100106	

STRAIGHT CONNECTORS

Steel straight connectors	Size	Colour	Item code	Standard box
	8 mm	GREY	101178	2.500 pcs.
		BLACK	101180	
	10 mm	GREY	101484	2.500 pcs.
		ANTHRACITE	101268	
	12 mm	GREY	101468	2.500 pcs.
		ANTHRACITE	101271	
	14 mm	GREY	101470	2.500 pcs.
		ANTHRACITE	101274	
	15 mm	GREY	101472	2.500 pcs.
		ANTHRACITE	101277	
Plastic straight connectors	16 mm	GREY	101474	2.500 pcs.
		ANTHRACITE	101280	
	18 mm	GREY	101476	2.500 pcs.
		ANTHRACITE	101283	
	20 mm	GREY	101478	2.500 pcs.
		ANTHRACITE	101286	
	22 mm	GREY	101480	2.500 pcs.
		ANTHRACITE	101289	
	24 mm	GREY	101205	2.500 pcs.
		BLACK	101207	
	10 mm	GREY	100329	5.000 pcs.
		BLACK	100338	
	12 mm	GREY	100330	5.000 pcs.
		BLACK	100339	
	14 mm	GREY	100331	5.000 pcs.
		BLACK	100340	
	15 mm	GREY	100332	5.000 pcs.
		BLACK	100341	
	16 mm	GREY	100333	5.000 pcs.
		BLACK	100342	
	18 mm	GREY	100334	5.000 pcs.
		BLACK	100343	
	20 mm	GREY	100335	4.000 pcs.
		BLACK	100344	
	22 mm	GREY	100336	4.000 pcs.
		BLACK	100345	
	24 mm	GREY	100337	4.000 pcs.
		BLACK	100346	

A global presence...



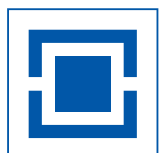
■ Manufacturing facility

■ Sales Office

■ Partner

www.technoform.com

TECHNOFORM **GLASSINSULATION**



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