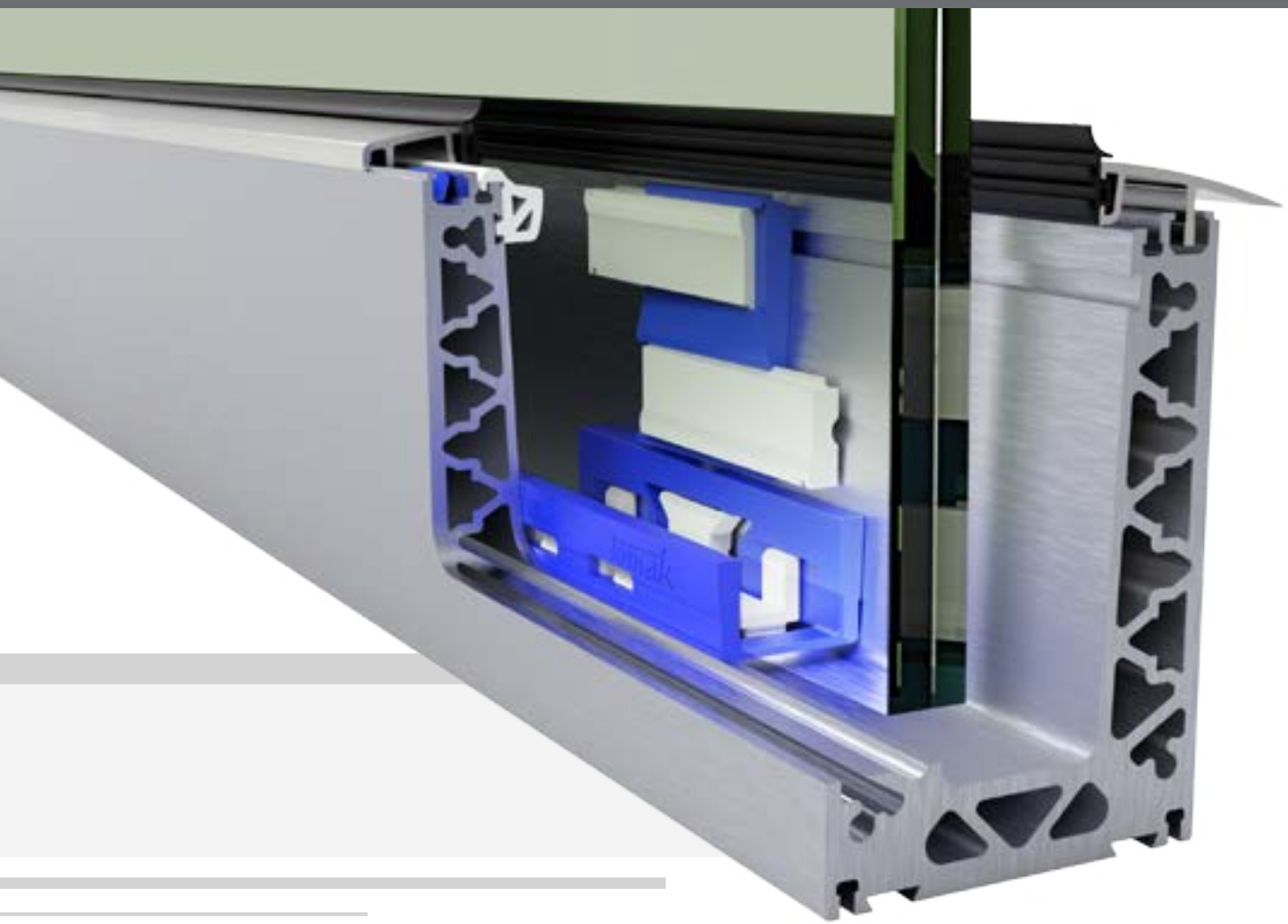
RAILING

Tomak

Dry Glazing System

Since 1993



DRY GLAZING

INSTALLATION INSTRUCTIONS

SIMPLICITY WITHIN COMPLEXITY

2025 – 2026

bimmatch

CAD IN EVERY FORMAT

TÜVRheinland® Precisely Right.

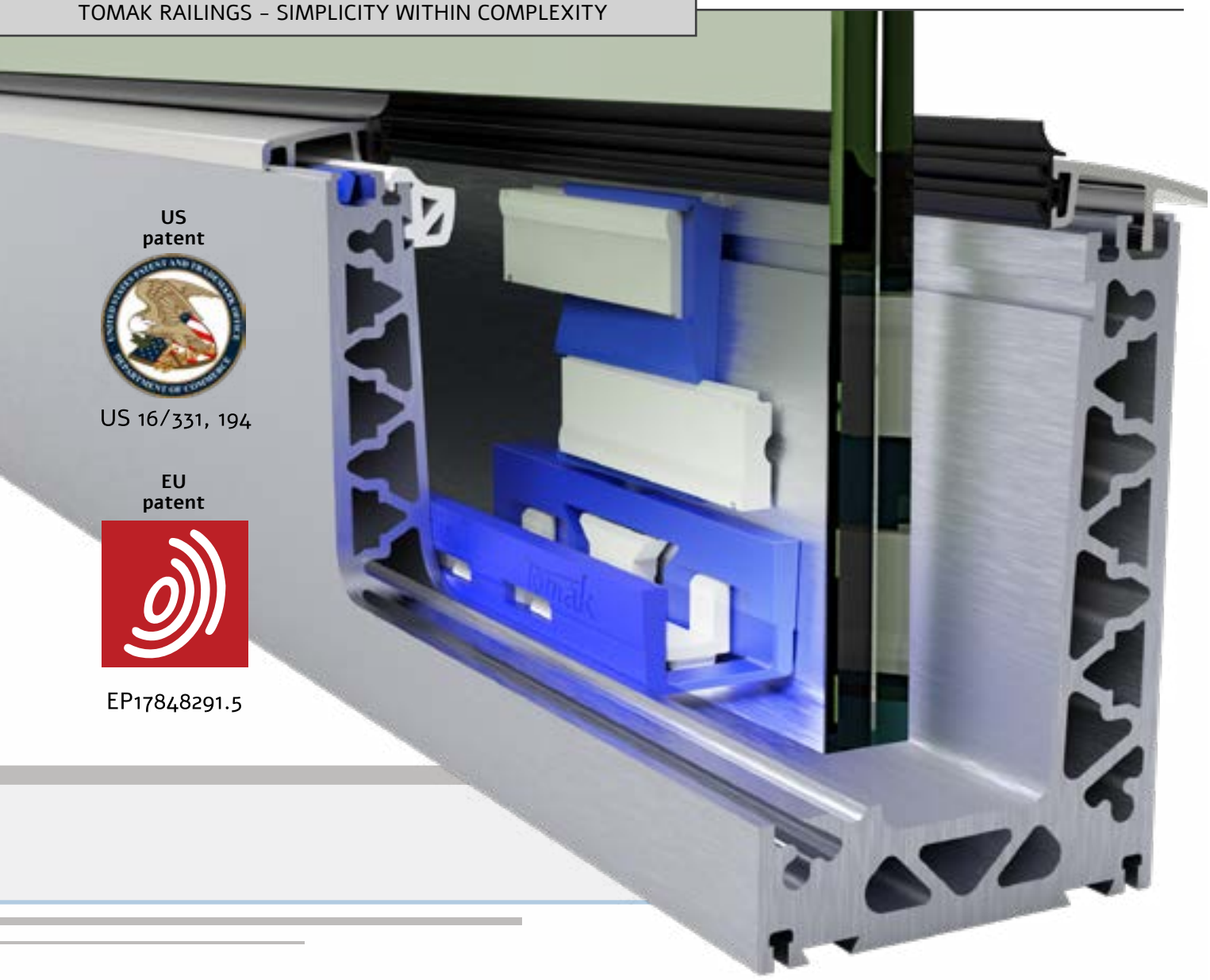
US patent

US 16/331, 194

EU patent

EP17848291.5

TOMAK RAILINGS – SIMPLICITY WITHIN COMPLEXITY

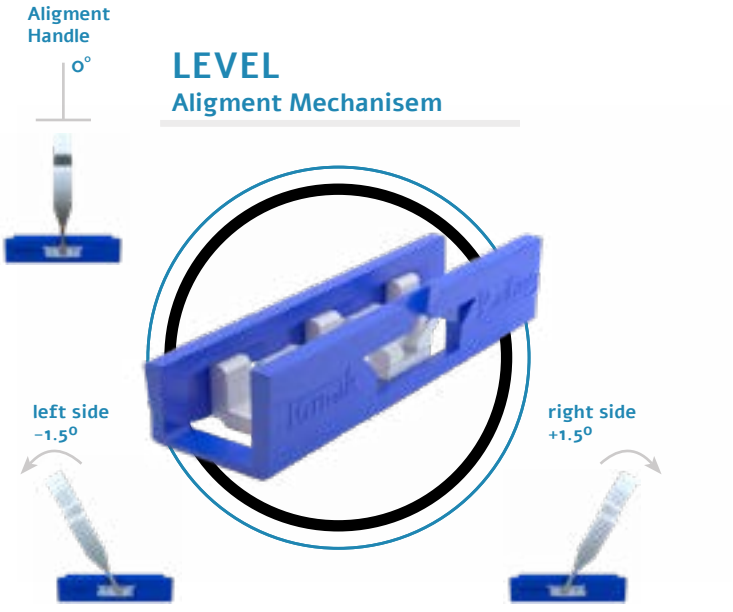


US patent

US 16/331, 194

EU patent

EP17848291.5

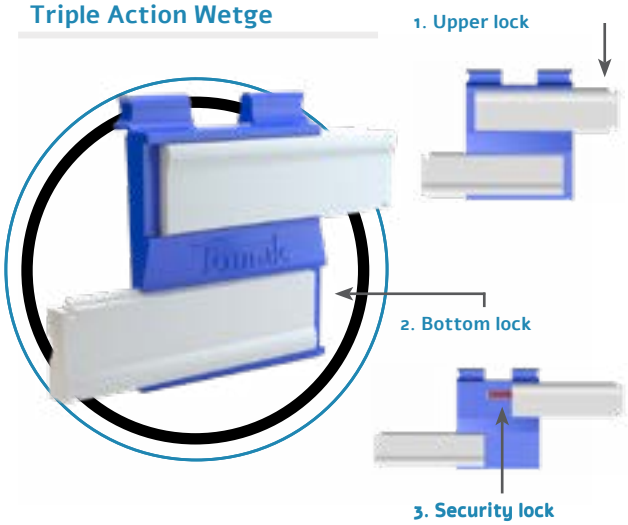


LEVEL

Aligment Mechanisem

LOCK

Triple Action Wetge



Innovative Features & Patented Elements

* A UNIVERSAL CHANNEL DESIGN – SIMPLE & SYMMETRIC - adaptable to all site conditions with intermediary brackets.
* LEVELING DEVICE integrated into the profile to ensure precise alignment
* LEVELING DEVICE integrated into the profile to ensure precise alignment
  Easy glass positioning adjustment with a simple lever motion.
  This unique PATENT- ALIGNMENT MECHANISM allow you know the glass angle by watching the lever direction.

* POSITION & LOCK the glass panel, at any angle using our PATENT- TRIPLE ACTION LOCKING SYSTEM.
  Unique design grips top and bottom for maximum strength.
* Our CLIP-ON cover solution suits all building types facades and designed to interface with any wall finish: Drywall, tiles, glass, wood, masonry, etc.

Why Choose Our System

* Universal profile • Minimal stock •Maximum efficiency.
* Multiple clip-on cover options – compatible with every facade and wall finish.
* Smart & Easy Balustrade Solutions – Backed by Decades of Experience
* Cantilever mount for a clean, floating look.
* Unique alignment mechanism patent – ensuring perfect glass line-up.
* Triple action Patent locking system.
* Our system's alignment and locking mechanism allow installation from inside the balcony, eliminating the need for lifting platforms and saving both TIME & MONEY.
* Our dedicated team simplified the design and ordering process, making it easier than ever.
* TÜV tested & certified.
* Our system is comply with the ABZ German standard.

Simplicity Within Complexit

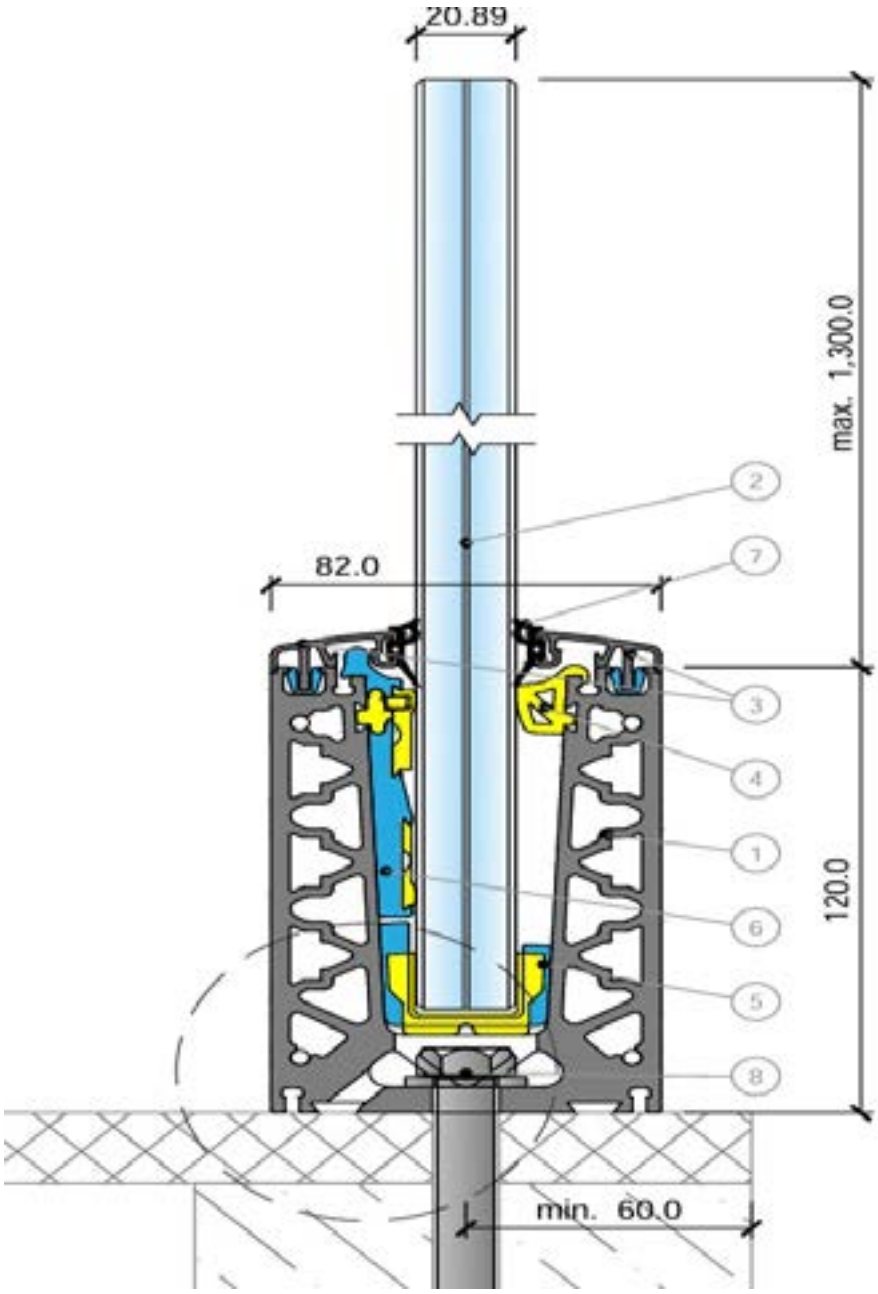
* Not just developers, but installers – With thousands of balcony and commercial projects delivered, we know how to simplify installation!!!
* Smart & Easy Balustrade Solutions, Backed by 30+ Years of TOMAK Experience



PROFESSIONAL GRADE

SURFACE MOUNT INSTALLATION- TK-8400/ TK-8200 /TK-6200

The Base Shoe is pre-drilled to use with standard fasteners.



CAUTION:
IMPROPER MOUNTING OF ARCHITECTURAL RAILING RESULT IN FAILURE OR UNSAFE CONDITIONS

BASE MOUNTING INSTALLATION INSTRUCTION

STEP 1: LEVELING

Secure the base shoe firmly to the floor/ marvel / concrete – leveled substrate, Use only certified fasteners. During installation, continuously verify that the base shoe is level in both horizontal directions by using the Tomak Position Level (TP115).

Figure 1 – instaltion with out shims

Figure 2 – instaltion with shims

In case the substrate is not level and smooth, use metal shims beneath the base shoe to achieve proper leveling and complete the concrete fill underneath.

STEP 2: DRILLING

Drilling in concrete shall be carried out according to the existing holes in the profile.

The following two options can be used:

* Chemical Anchor: Ø14 mm or 9/16" hole for bolts with
* Direct Concrete Screw: Ø12 mm or 15/32" hole for.

Figure 3 – Drilling holes

STEP 3: BOLT BONDING

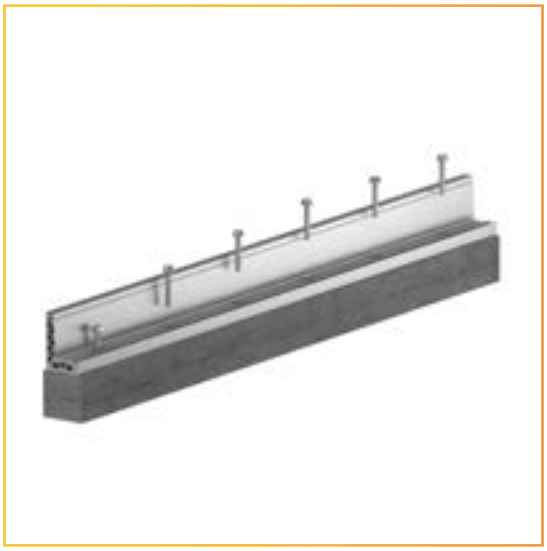
Install the bolts into the cured chemical anchor, applying firm and steady pressure to ensure full engagement and secure fixation

Direct concrete screw 1/2" x 4" 

Chemical Anchor threaded rod 1/2" x 4" 

Figure 4 – installtion bolts

Figure 5 – cut view



IMPORTANT:
All fastener heads and building penetrations must be sealed with silicone before installing the glass.

STEP 4: TOMAK ALIGNMENT MECHANISM

Carefully insert the Tomak Alignment Mechanism into the base shoe, oriented toward the inside of the balcony. For each glass panel, position two Tomak Alignment Mechanisms, each placed 20 mm (1”) from the panel edges.

Figure 6 – Position of Alignment Mechanis in base

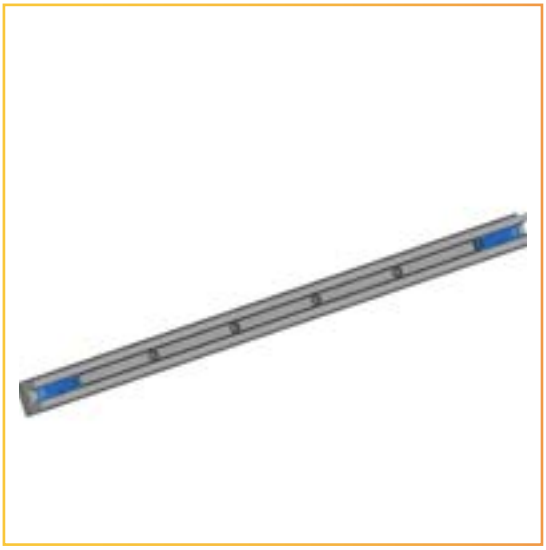
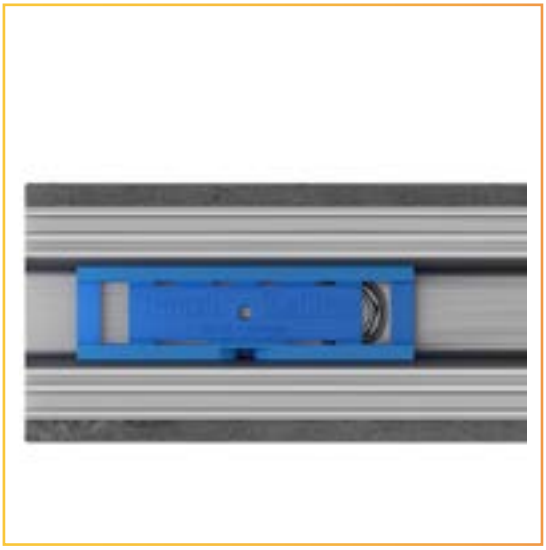


Figure 7 – Position of Alignment MechanismAlignment Mechanis in base



STEP 5: TOMAK GLASS BACK SUPPORT

Insert the Tomak Glass back support into its designated frame slot, ensuring proper alignment, and verify stability after installation. Install the support gasket at 20 mm (0.8”) spacing, with each strip length of 230 mm (9”).

Figure 8 – Installtion gaps

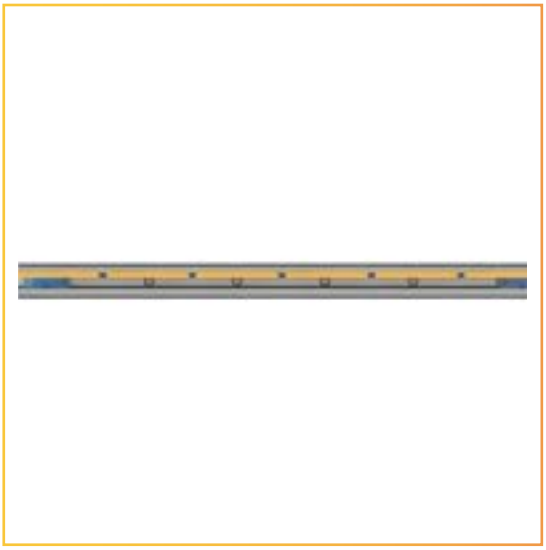


Figure 9 – Glass back support

STEP 6: TOMAK COVER CLIPS

Insert 6 pcs Tomak Cover Clips on each side of the Base Shoe, spaced at 500 mm (20”), for a total of twelve (12) clips per Base Shoe.

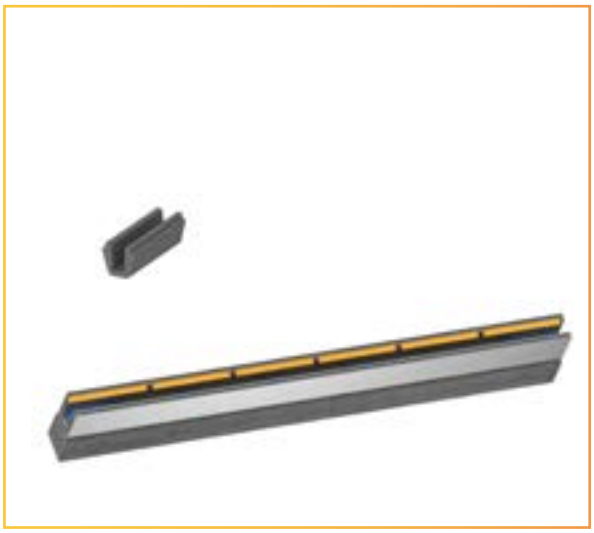


Figure 10 – Cover clips

STEP 7: TOMAK TOP COVER

Insert the Tomak outer Aluminum Top Cover profile, ensuring proper alignment. Press it down firmly until it locks securely into the Tomak Cover Clips in the Base Shoe

Figure 11 – Top Covre Profile

Figure 12 – Press down to lock it

STEP 8: TOMAK FIXING GLASS

Install the glass panel into the Base Shoe,
ensuring that the glass is properly inserted into the Tomak Alignment Mechanism positioned inside the Base Shoe.
Use the Tomak Fixing Handle (TGF125) at the center of the glass panel to secure it through the Tomak Glass Back Support.

Figure 13 – Tomak Fixing Handle

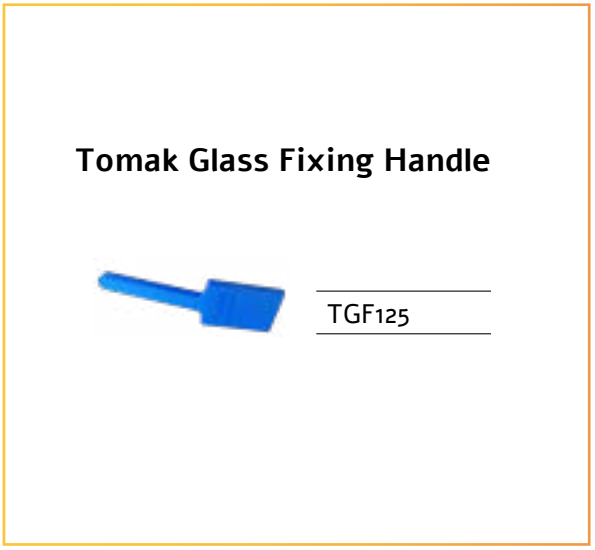
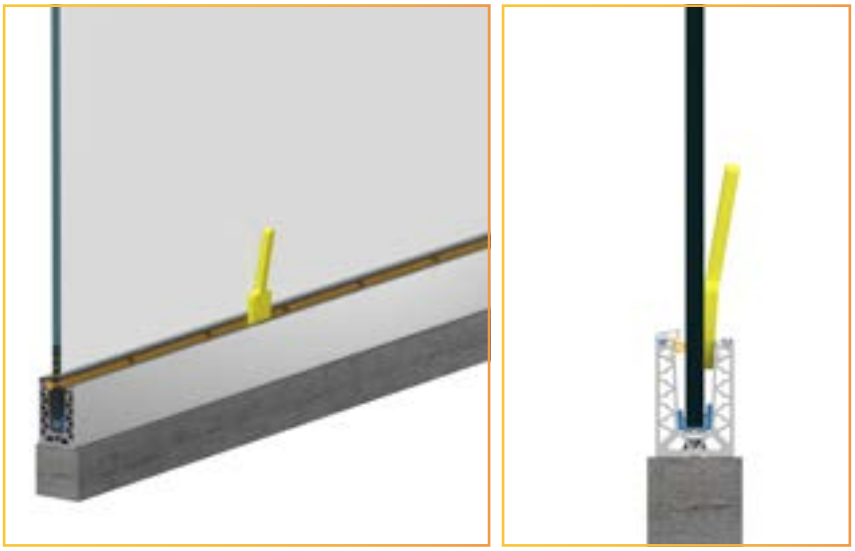


Figure 14 – Installing glass with Tomak Fixing Handle



STEP 9: TOMAK GLASS ALIGNMENT HANDLE

Use the Tomak Alignment Handle (TAL110) to achieve precise positioning and ensure optimal alignment during installation of the glass.

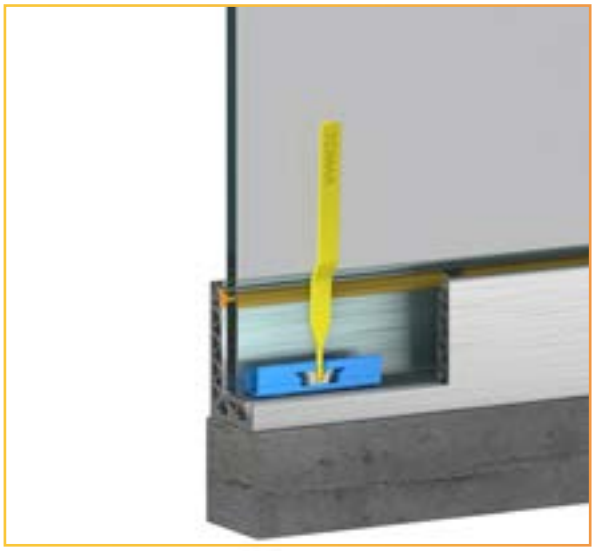


Figure 15 – Cut view

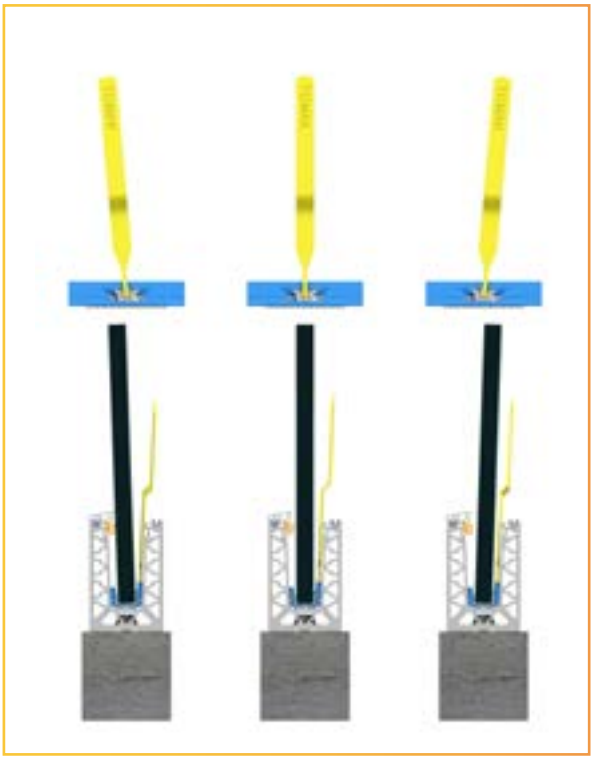


Figure 16 – All Positions

STEP 10: TOMAK LOCKING MECHANISM

Starting 100 mm (4”) from the edge of the Base Shoe, insert the Tomak Locking Mechanism every 250 mm (10”) along the glass from the balcony side. To ensure each mechanism is properly secure.
Place the Tomak Locking Tool over the locking mechanism and tighten it with a ratchet to firmly lock the glass in place.

Figure 17 – Postion of Locking Mechanisms

Figure 18 – Locking Mechanisem

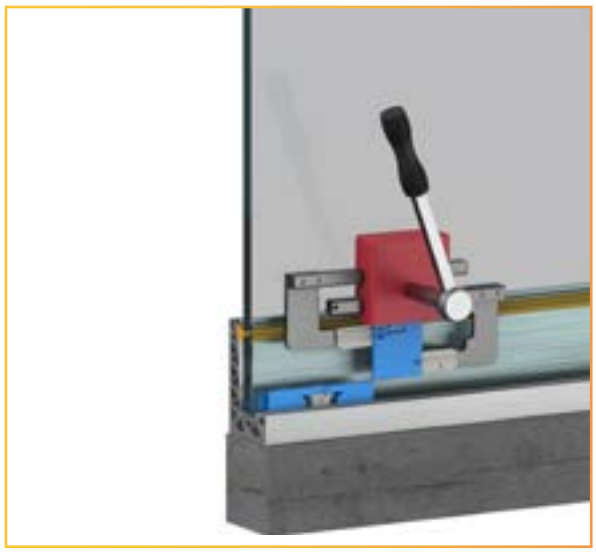


Figure 19 – Cut View

STEP 11: TOMAK TOP COVER

Insert the Tomak Inner Aluminum Top Cover profile, ensuring proper alignment. Press it down firmly until it locks securely into the Tomak Cover Clips in the Base Shoe.

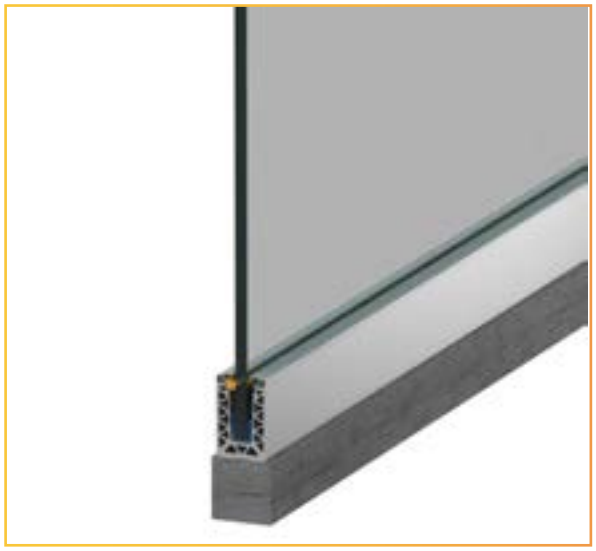
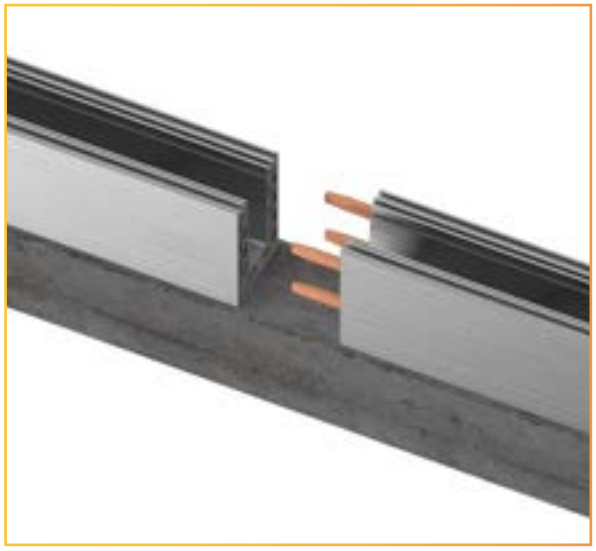


Figure 20 –
Inner Aluminu m Top Cover profile

STEP 12: CONNECTING BASE SHOE PROFILES

To connect 2 profiles together insert 4 Tomak 1/2" x1/4" Aluminum connectors into the base shoe intended sluts by hammer.

Slide the next base shoe profile into the Tomak Aluminum connectors to achieve perfect alignment.



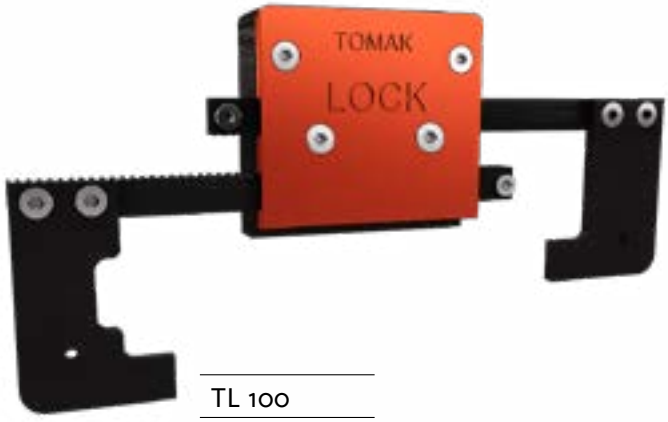
GLASS REMOVAL & REPLACEMENT

In case the glass needs to be removed and replaced (e.g., due to breakage, delamination, or height adjustment), the process can be performed quickly and easily using the patented Tomak Unlocking Tool (TL105), specifically designed for the locking mechanism.
NOTE: Ensure that only trained personnel carry out glass removal and replacement, following all site safety requirements.

TL 105

TOMAK TOOL BOX (INCLUDED)

Lock



TL 100

UnLock

TL 105

Tomak Aligment Handle

TAL110

Tomak Extention Soket Bolt 1/2

TEX150

Tomak Position Level

TPL115

Tomak Hammer

TH155

Tomak Rachet1/2 Lock

TRL120

Tomak Glass Fixing Handle

TGF125

Tomak Power Liver 1/2X500

TPL130

Tomak Glass Clamp

TH140

Tomak Sockets Bolt

TSB135 – 19 | TSB140 – 17 | TSB145 – 13

Reportnumber 89211059-02 I 12th January 2016
16.A352 - EN1991-1-1

TÜVRheinland® Precisely Right.

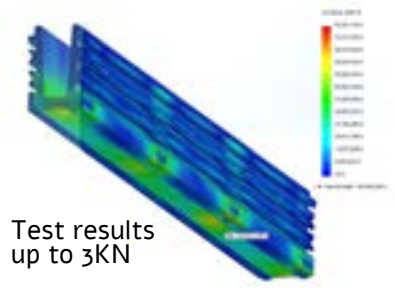
Testresults

Test results after execution of the test(s) according to National Annex A, Static horizontal loads on parapets and wall partitions acting as barriers and National Annex B, Impact loads on parapets and wall partitions acting as barriers at a difference of heights of EN 1991-1-1 [1, 2]:

National Annex A, Static horizontal loads

Requirement	**Description of the requirement**			**Pass/ Fail/ n.a.**
EN 1991-1-1+National Annex A	If a partition wall, acting as barrier is mandatory for a difference in height with the surrounding floor, the surrounding terrain, or the surrounding water, a separate line load (q_k) and a concentrated load F_k, must be applied.			
	Rooms	q_{rep}		
		Recommended value	**Test-value**	
Table 6.12	Rooms category A	0,5 kN/m 1 min		n.a.
	Rooms category B, C1	0,5 kN/m 1 min		n.a.
	Rooms category C2 to C4 and D	1,0 kN/m 1 min	1,15kN	Pass
	Rooms category C5	3,0 kN/m 5 min	3,45kN	Pass
	An additional load was tested for future applications up to 4,35kN/m1, where the maximum value of the scale is 5,00kN. Higher loads are possible, but this could not be tested.	4,35 kN/m 5 min	5,00kN	Pass

Strength Analysis



Test results
up to 3KN

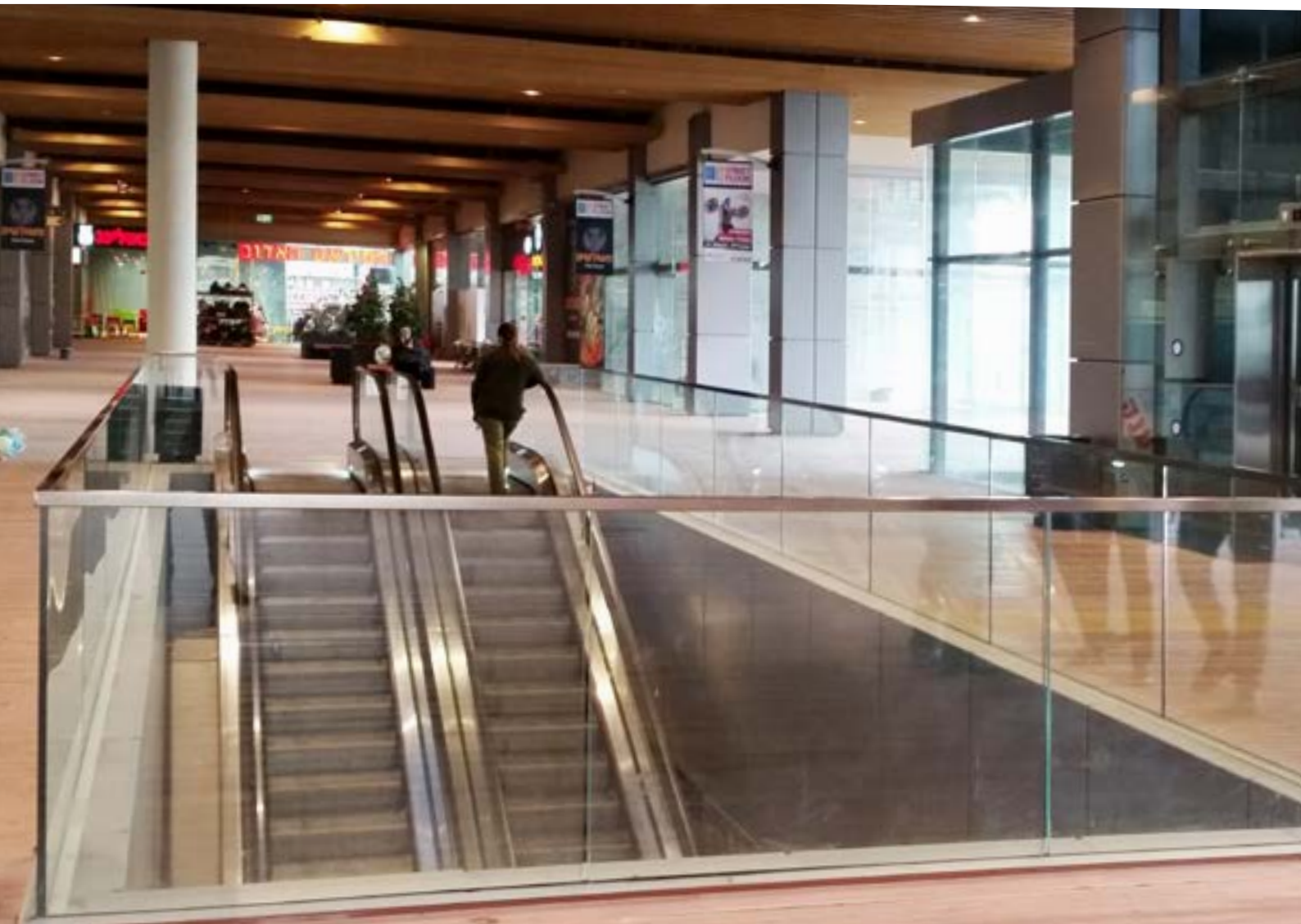
Reportnumber 89211059-03 I 12th January 2016
16.A352 - EN1991-1-1

TÜVRheinland® Precisely Right.

National Annex B, Impact loads on parapets and partition walls acting as barrier.

Test	**Horizontal place impact soft body**	**Drop height in meters**	**Height of impact from underside construction (floor level) in mm**	**Dim. W x H in mm**
1	Middle of width and appr. 15cm below the upper edge of sample	1,00 m	Appr. 950 mm	1150x1100mm

Require-ment nr.	**Description of requirement**		**Pass/ Fail/ n.a.**
NEN-EN 1991-1-1+National Annex B	If a partition wall, acting as barrier is mandatory for a difference in height with the surrounding floor, the surrounding terrain, or the surrounding water, the prescribed impact load must be determined.		
		Gemeten/beoordeeld	
NEN-EN 1991-1-1+National Annex B	The construction is capable of withstanding the impact load, if the soft body impactor is not penetrating the construction.	no penetration of construction	Pass
NEN-EN 1991-1-1+National Annex B	. ..and after execution of the test, the residual strength and consistency of the construction is still intact	consistency intact	Pass



For more
Installation details
Scan this qr

Sigstar | Branding & Graphic design

cat v. 2 10/2025

US patent

US 16/331, 194

EU patent

EP17848291.5

int.marketing@tomak-railing.com +972-4-6142591 www.tomak-railing.com