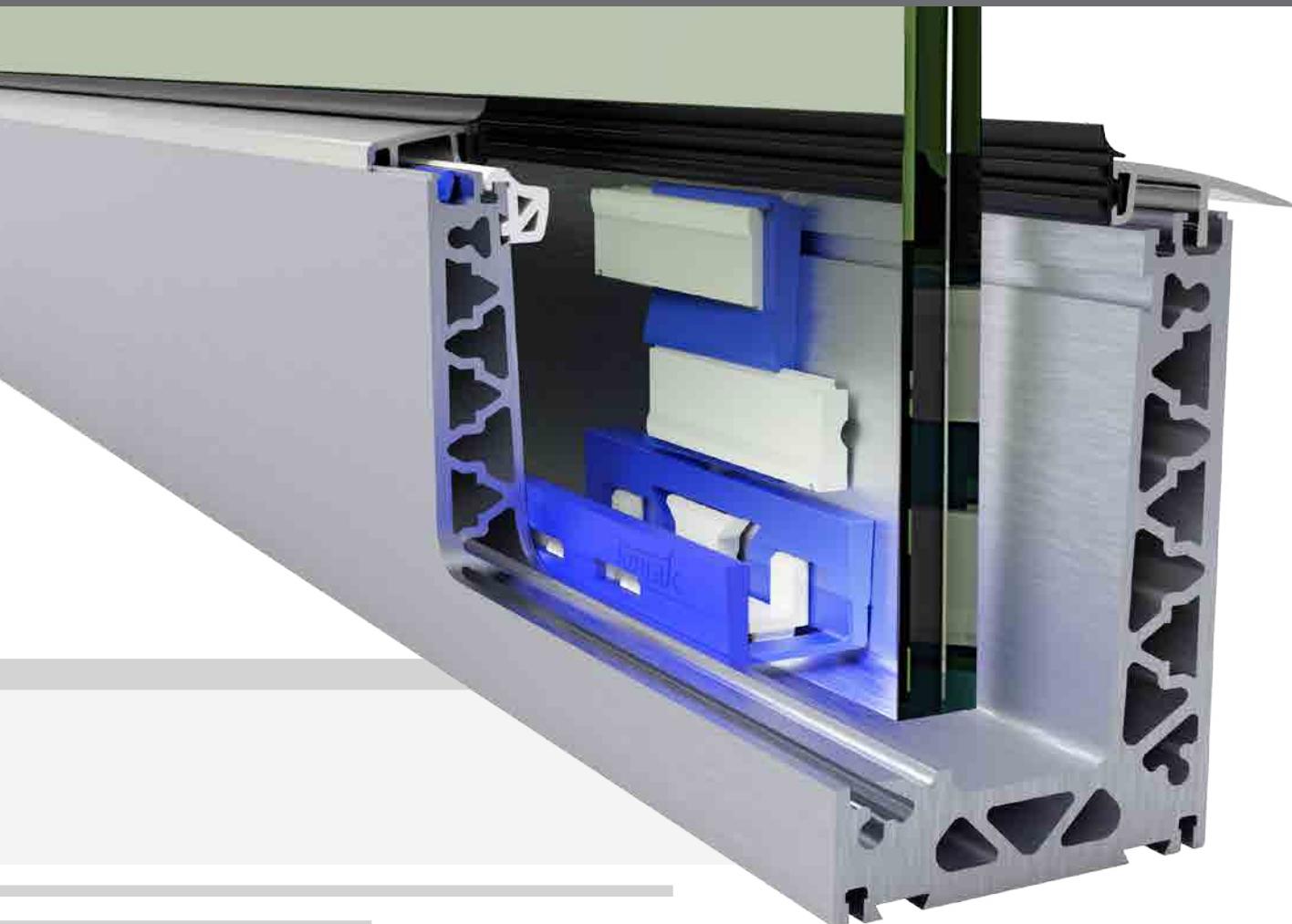


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& ON - SITE SOLUTIONS  
**2026**



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Precisely Right.



US 16/331, 194



EP17848291.5



## ABOUT US



TOMAK RAILINGS – SIMPLICITY WITHIN COMPLEXITY

**Tomak** was founded in 1993 by the late Haim George and his son-in-law Simon Bieler. Simon is the CEO – second generation die & tool maker who named the company after his two children Tom & Karin hence Tomak.

**Tomak** is a market leader of metal & glass works in.

**Tomak** specializes in metal & glass applications from simple hand railings, up to complex steel & glass structures, including custom made due to client specifications.

Tomak is a family business with professional dedicated team following the the company over 20 years.

**Tomak** handles all its design development & engineering in house & even models, samples & testing are executed by the team.

**Tomak** has high-end computerized machinery experienced workforce, a spotless reputation at the market with the most prestigious clients all over the country.

For 3 decades Tomak's long experience in metal & glass industry reflects our products and service to deliver **smart & easy** balustrade solutions using our own system.



**Simon Bieler**  
President & CEO.

**mobile:** +972-52-3054141  
simon.tomak@gmail.com



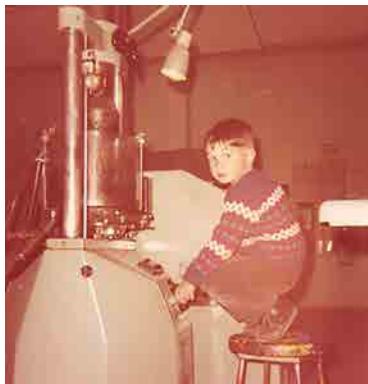
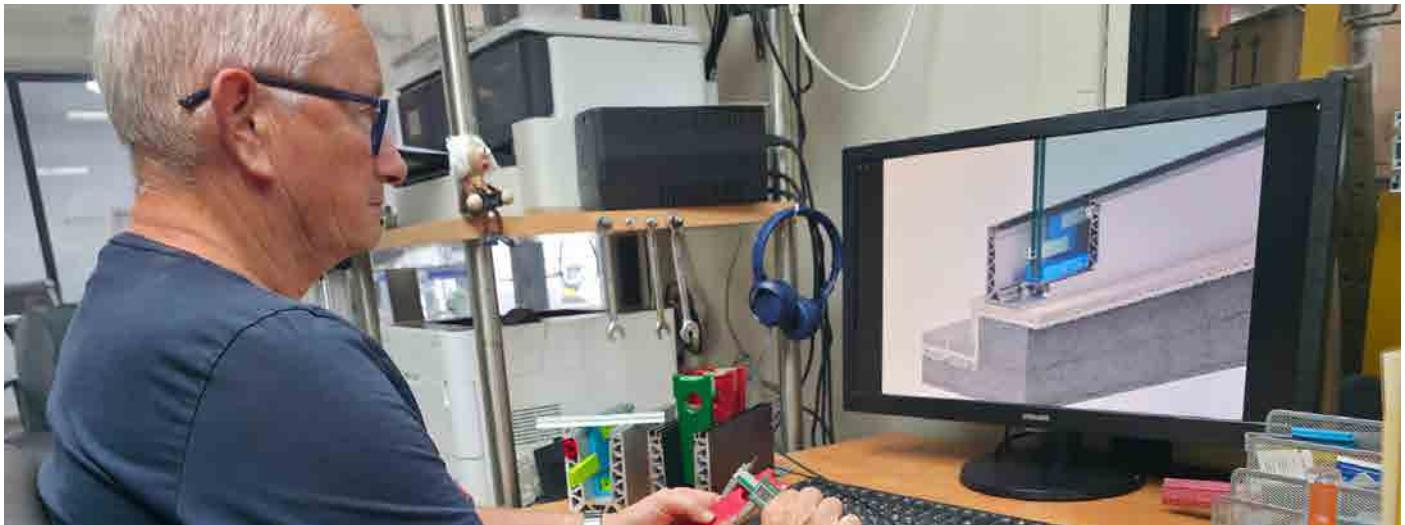
**Orly Bieler**  
VP & CFO.

**mobile:** +972-52-3053131  
orly.tomak@gmail.com



**Tom Bieler**  
VP Regional marketing

**mobile:** +972-54-6115313  
tomb.tomak@gmail.com



Simon Bieler Already in the industry from age of 5. ISCAR Factory - 1968

### Simon Bieler -

Born in the UK in 1963, Simon Bieler is the owner, manager and founder of Tomak.

He followed in the footsteps of his late father, Alfred Bieler, a skilled die and toolmaker from Germany, who was among the first workers at ISCAR International.

At the age of six, Simon discovered his passion for the industry while visiting his father's toolmaking department. From that moment, his fascination with research, design, and the development of metal products began—and only grew stronger over the years.

For more than three decades, Simon has been leading Tomak, continuously bringing together top professionals and experts. He remains personally involved in the company's unique and innovative production, design, and product development processes.

Tomak designs, manufactures, and installs balustrades in various materials and combinations, including glass, stainless steel, and aluminum.



Tomak Dry Glazing Railing Glass System

## INVESTORS & COLABERATIONS

### TOMAK SIMPLICITY WITHIN COMPLEXITY

Thanks to our extensive technical knowledge and many years of research experience, we have developed inhouse system for unique, dry glazed glass railings that have been tested and proven to be very effective. The system offers solutions for special installations in unusual forms in various prestigious projects across the country.

Our fully equipped design and development workshop as well as our extensive machining and tooling expertise made us an ideal partner for architects, designers and entrepreneurial Projects. We worked with them to convert their concept designs to reality. Anything they imagined it, we found the best way to manufacture.

we have built our reputation on creativity, innovation, excellent service and uncompromising quality both for our products or our fully customized project services.

Due to installation fo thousands of meters of glass balustrades we developed our own Universal Dry Glazing System. TOMAK's current product systems include: a registered patent for dry glazing railing system a professional-grade DIY aluminum home fencing system a glass+aluminum banister system.

As part of "Startup Nation" we have made a technological breakthrough in our field. We are seeking involvement of large companies, who present strong advantage and assist in commercialization, manufacturing and in opening the door to global markets. If you are such company, you may benefit from collaborating with us, by sharing the risk of r&d investment and relying on our knowledge, facilities and expertise for innovative product development and market penetration.

In order to encourage the creation of partnerships in, the Innovation Authority operates a dedicated Global Enterprise R&D Collaboration Program.

If you are seeking for new product innovation to market and wish to get more info contact us and we will meet you for more details.

**Our team shares the visionary of all in one tailor-made on-site solutions with the most resourceful out of the box thinking – come join us for an outstanding future opportunity.**



## EUROPEAN CERTIFICATION


 European Patent Office  
80298 MUNICH  
GERMANY

 Questions about this communication?  
Contact Customer Services at [www.epo.org/contact](http://www.epo.org/contact)

 Pearl Cohen Zedek Latzer Baratz UK LLP  
The Gridiron Building  
One Pancras Square  
London N1C 4AG  
ROYAUME UNI

Date 08.05.2025

 Reference P-80361-EP Application No./Patent No. 17848291.5 - 1005 / 3510231  
Applicant/Proprietor Tomak Ltd.

## Transmission of the certificate for a European patent pursuant to Rule 74 EPC

The certificate for a European patent is herewith transmitted.

 The European patent specification can be downloaded from the EPO publication server <https://data.epo.org/publication-server/> (see OJ EPO 2005, 126).

## Note:

A corrected title page of the European patent specification will be published, if the bibliographic data have been changed after completion of the technical preparations.

## For the Examining Division


  
EUROPÄISCHES PATENT | EUROPEAN PATENT  
BREVET EUROPÉEN

Hiermit wird bescheinigt, dass für die in der Patentschrift beschriebene Erfindung ein europäisches Patent für die in der Patentschrift bezeichneten Vertragsstaaten erteilt worden ist.

It is hereby certified that a European patent has been granted in respect of the invention described in the patent specification for the Contracting States designated in the specification.

Il est certifié par la présente qu'un brevet européen a été délivré pour l'invention décrite dans le fascicule de brevet, pour les Etats contractants désignés dans le fascicule.

 European Patent No.  
European patent No.  
Brevet européen n°

 Tag der Bekanntmachung des Patenten auf die Erteilung des europäischen Patents  
Date of publication of the notice of the grant of the European patent  
Date de la publication de la mention de la délivrance du brevet européen

EP3510231

23.04.2025

## SYSTEM AND METHOD FOR PLATE ALIGNMENT

Patentinhaber | Proprietor(s) of the patent | Titulaire(s) du brevet

 Tomak Ltd.  
Moshav Regba  
2280400 Moshav Regba  
IL



 Antonio Campinos  
Präsident des Europäischen Patentamts | President of the European Patent Office | Président de l'Office européen des brevets  
München, den 23.04.2025

## USA CERTIFICATION


 (12) United States Patent  
Bieler et al.

 (10) Patent No.: US 11,220,823 B2  
(45) Date of Patent: Jan. 11, 2022

## (54) SYSTEM AND METHOD FOR PLATE ALIGNMENT

## (56) References Cited

## U.S. PATENT DOCUMENTS

(71) Applicant: TOMAK LTD., Moshav Regba (IL)  
(72) Inventor: Simon Luis Bieler, Nahariya (IL); Ido Drukker, Nahariya (IL)  
(73) Assignee: TOMAK LTD., Moshav Regba (IL)

(\*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 307 days.

## FOREIGN PATENT DOCUMENTS

(DE) 20 2013 104 350 12/29/2013  
247932 12/29/2012  
(Continued)

## OTHER PUBLICATIONS

International Search Report of Application No. PCT/IL2017/05104  
051014 dated Dec. 4, 2017.  
(Continued)

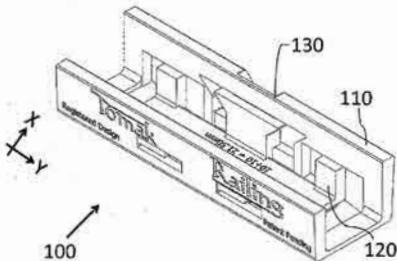
 Primary Examiner — Patrick J Maciori  
(56) Attorney, Agent, or Firm — Pearl Cohen Zedek  
Latzer Baratz LLP  
PCT Pub. No.: WO2018/047179  
PCT Pub. Date: Mar. 15, 2018

(55) Prior Publication Data  
US 2019/0218786 A1 Jul. 18, 2019

(51) Int. Cl. E04F 11/1812 (2006.01)  
(52) U.S. Cl. E04F 11/1812; E04F 11/1833 (2013.01); E04F 20/17895 (2013.01)

(58) Field of Classification Search  
CPC E04F 11/1812; E04F 11/1833; E04F 20/17895; D06B 3/54  
See application file for complete search history.

14 Claims, 11 Drawing Sheets.



## UNITED STATES PATENT AND TRADEMARK OFFICE


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APPLICATION NO. 16/311,194 ISSUE DATE 01/11/2022 PATENT NO. 11220823 ATTORNEY/DOCKET NO. P-80361-US CONFIRMATION NO. 592

 44445 7590 12/11/2021  
Pearl Cohen Zedek, Latzer Baratz LLP  
7 Times Square, 19th Floor  
New York, NY 10036

## ISSUE NOTIFICATION

The projected patent number and issue date are specified above.

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment is 307 day(s). Any patent to issue from the above-identified application will include an indication of the adjustment on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

 Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (<http://pair.uspto.gov>).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Application Assistance Unit (AAU) of the Office of Data Management (ODM) at (571)-272-4200.

 INVENTOR(S) (Please see PAIR WEB site <http://pair.uspto.gov> for additional inventors):

Simon Luis BIELER, Nahariya, ISRAEL;

Ido DRUKKER, Nahariya, ISRAEL;

 APPLICANT(S) (Please see PAIR WEB site <http://pair.uspto.gov> for additional applicants):

TOMAK LTD., Moshav Regba, ISRAEL.

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I103 (Rev. 10/09)

## SMART SYSTEM

### 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 ALIGNMENT MECHANISM®  
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 comply with the **ABZ** German standard.

### SIMPLICITY WITHIN COMPLEXITY

- \* 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 years of TOMAK'S Experience**

## SMART SYSTEM POSITIONING, LEVEL & LOCK SMART SYSTEM



TK 8200 – 8208  
Commercial  
3.0 KN & more



TK 8400 – 8408  
Commercial  
3.0 KN & more

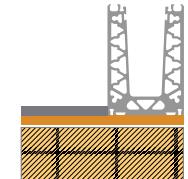
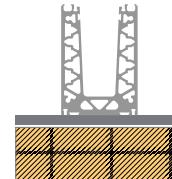
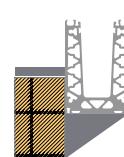


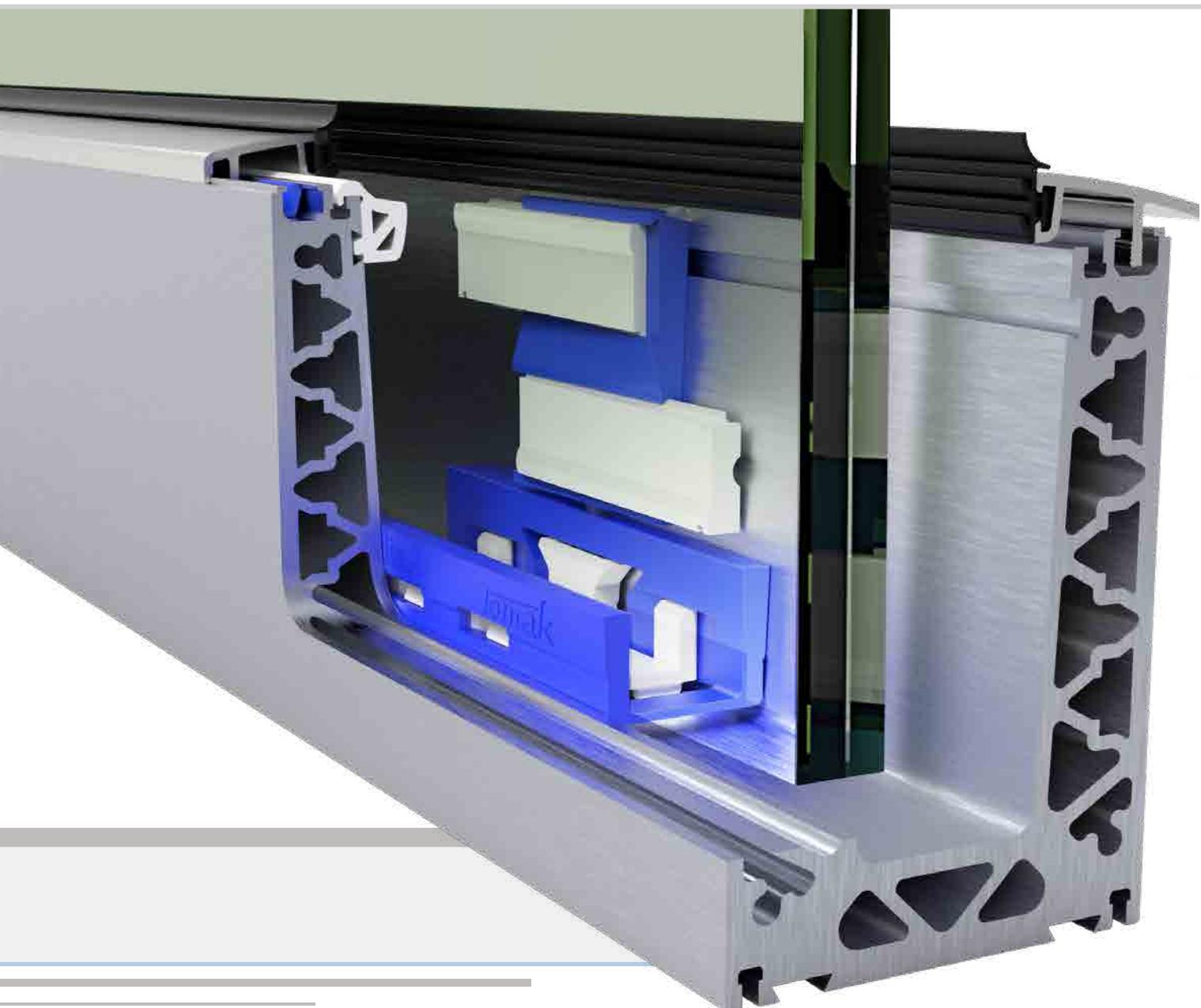
TK 6200 – 6208  
Residential  
1.5KN & more



TK 8250  
Casting  
3.0 KN & more

### POSITION Universal Channel





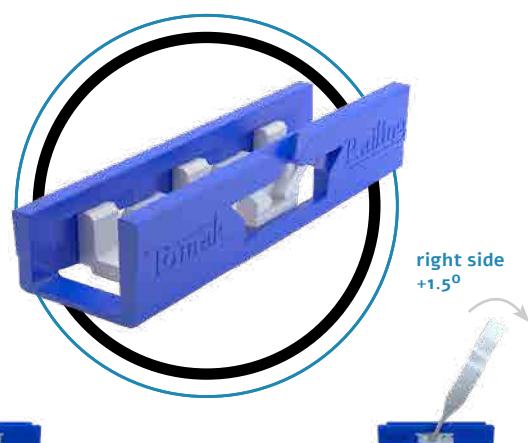
Alignment Handle

0°



### LEVEL

Alignment Mechanism



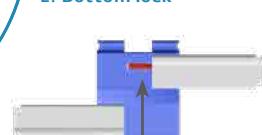
### LOCK

Triple Action Wedge

1. Upper lock



2. Bottom lock

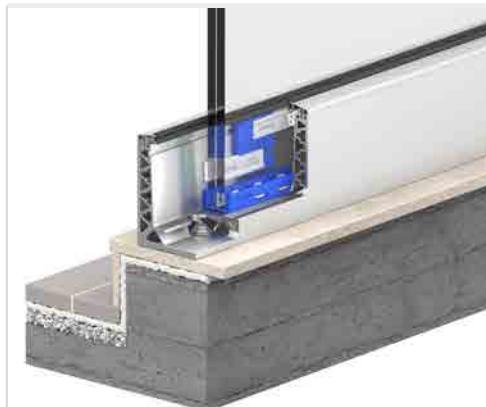


3. Security lock



## PRODUCTS INDEX

**TK-8400 – 3.0 KN profile  
for 12 + 1.52 SGP + 12 glass**



**TK-8400**  
Heavy Profile  
3.0 KN Top Mount  
[p.12](#)

**TK-8200 – 3.0 KN profile  
for 10 + 1.52 SGP + 10 glass**



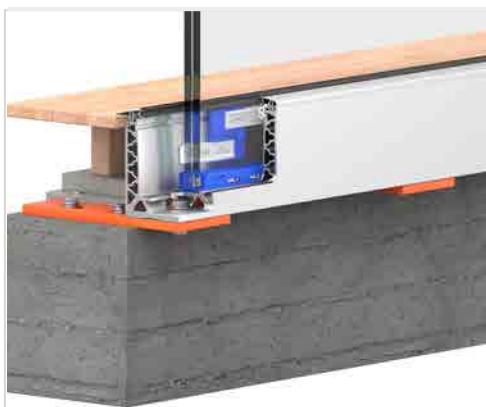
**TK-8200**  
Heavy profile  
3.0 KN top mount  
[p.16](#)



**TK-8404**  
Heavy Profile  
3.0 KN Cantilever  
mount  
[p.13](#)



**TK-8204**  
Heavy Profile  
3.0 KN cantilever  
mount  
[p.17](#)



**TK-8408**  
Heavy Profile  
3.0 KN Installation  
on Steel Plate  
[p.14](#)



**TK-8208**  
Heavy Profile  
3.0 KN Installation  
on Steel Plate  
[p.18](#)

**CAD** IN EVERY  
FORMAT



bimmatch



PDF



.dwg



R



DXF

**TK-6200 – 3.0 KN profile  
for 8 + 1.52 SGP + 8 /10 + 1.52 SGP + 10 glass**



**TK-6200**  
Fine profile  
1.5 KN  
Top mount  
[p.24](#)

**Casting profile**



**TK-8250**  
Casting  
Profile  
3.0 KN  
[p.21 'ny](#)

**SEGMENTS**



**Tk-6204**  
Fine profile  
1.5 KN cantilever  
mount  
[p.25](#)



**TK-8290  
TK-6290**  
Segments  
[p.23](#)

**MORE**

**Tomak Tool Box** [p.28](#)

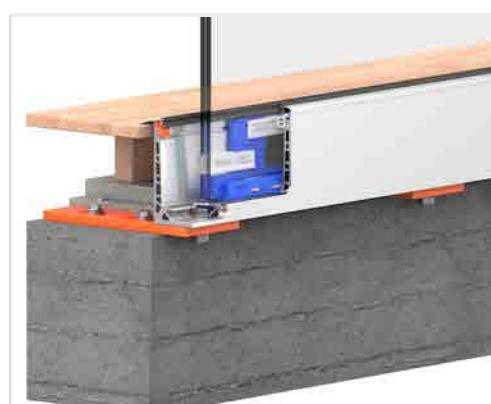
**Accessories** [p.29](#)

**Cover Ends** [p.30](#)  
**Corners**

**TÜV Test Results** [p.31](#)



**Installation instructions**

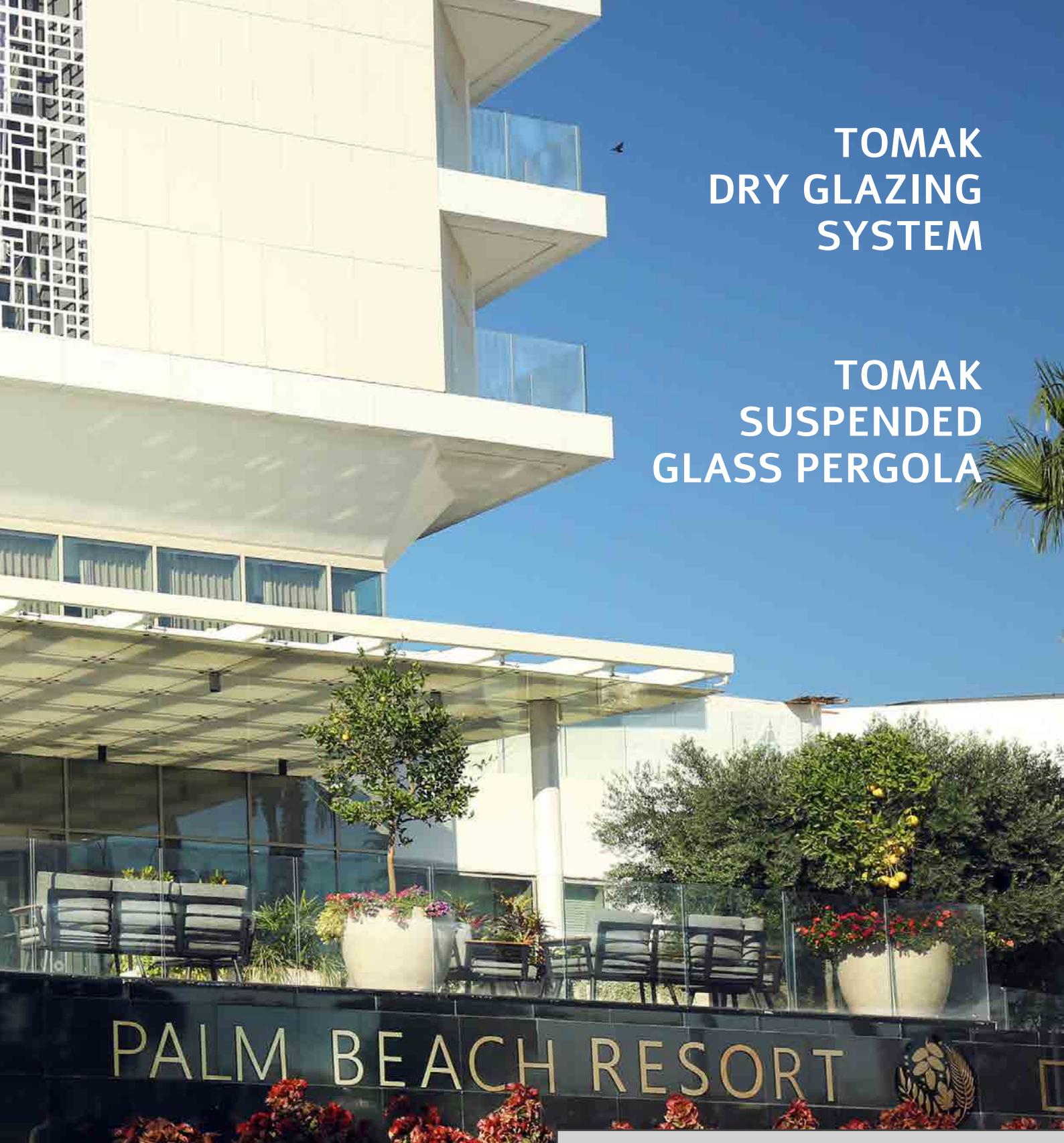


**TK-6208**  
Fine profile  
1.5 KN  
foot mount  
[p.26](#)

**\*Images are for illustration purposes only.**



**US patent  
US 16/331, 194**



**TOMAK  
DRY GLAZING  
SYSTEM**

**TOMAK  
SUSPENDED  
GLASS PERGOLA**

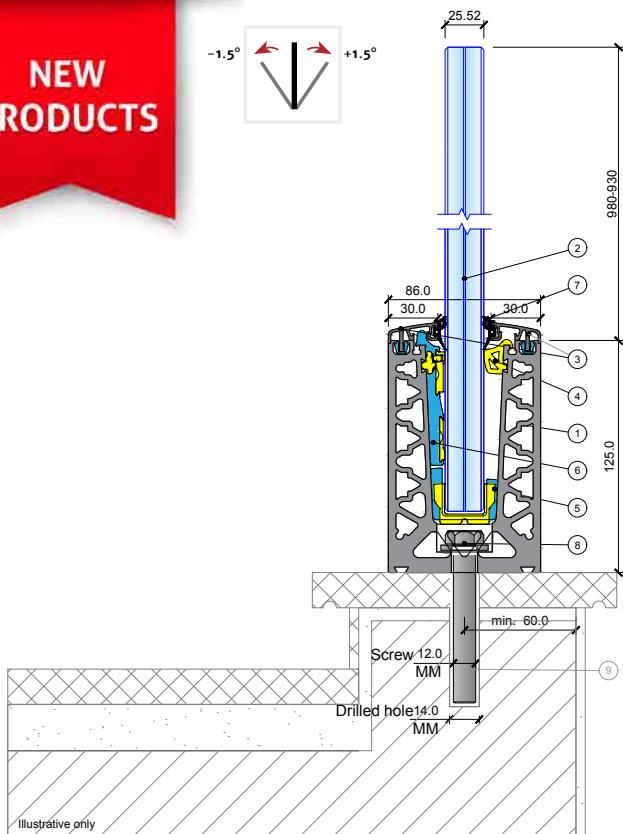
**PALM BEACH RESORT**

**3.0 KN PROFILES**

# TK-8400 part | TK-8400 profile

## Heavy Profile 3.0 KN Top Mount

**NEW  
PRODUCTS**



- 1 Profile TK-8400
- 2 Compatible with glass using SGP lamination: 12+1.52+12
- 3 Aluminum top cover rail
- 4 Glass back support profile: P.P + GF 20%
- 5 leveling & alignment mechanism – PP + 20% GF
- 6 Triple locking mechanism (3-actions): P.P + GF 20%
- 7 Sealing gaskets: EPDM
- 8 Stainless steel threaded rod M12/170 + chemical anchor + HILTI + nut + washer

### Glass Kit 3.0m

Leveling & Alignment Mechanism



X 6

Triple Action Locking Mechanism



X 12

Glass Back Support



X 12

Cover Clips



X 12

Epdm Sealing Gasket



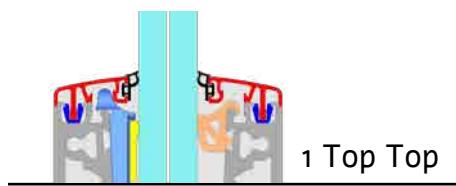
2 X 3.00 m

Epdm Glass Spacers

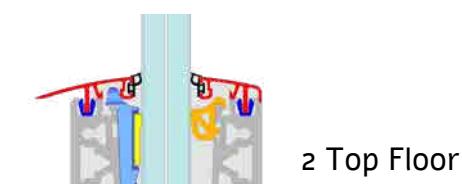


1 X 10 CM

### Cover Sets Options



1 Top Top

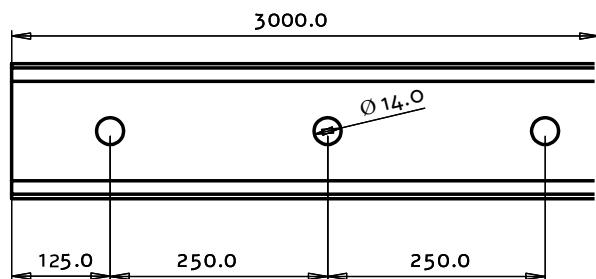


2 Top Floor

\* Must be cut by the installer

### Order Kit

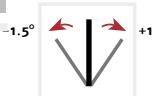
|   |          |
|---|----------|
| Heavy Profile Top Mount – Brushed anodaized | TK-8400  |
| Glass Kit – 12 + 1.52 SGP + 12              | GK-25.52 |
| Top Top – Cover                             | TTC82-1  |
| Top Floor – Cover                           | TFC82-2  |



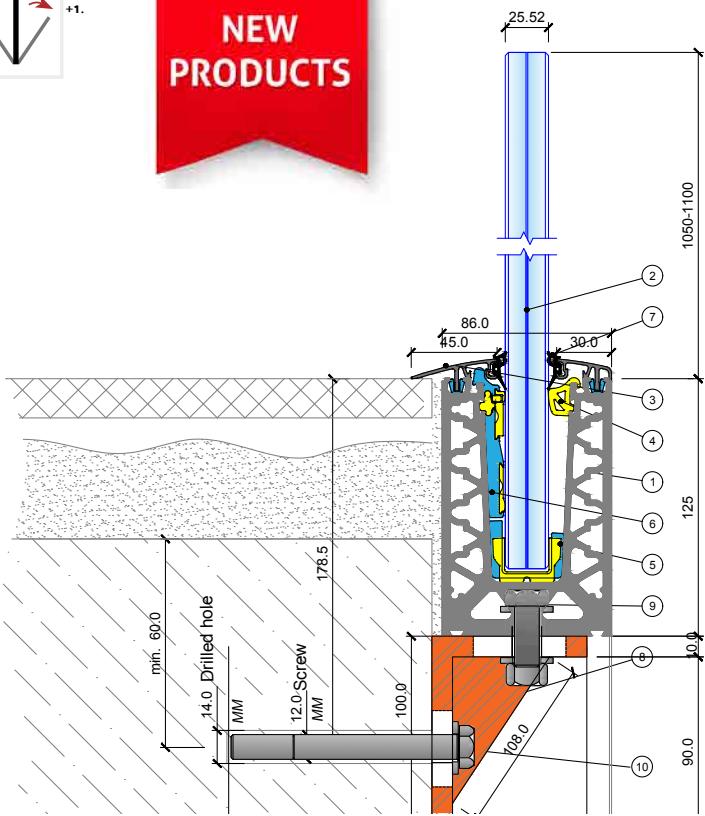
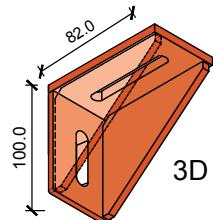
\*\* Different finishes are available upon request.

\*\*\* For End Caps, Handrails & Accessories – See page 28 – 30 of this manual.

- 1 Profile TK-8400
- 2 Compatible with glass using SGP lamination: 12+1.52+12
- 3 Aluminum top cover rail
- 4 Glass back support profile: P.P + GF 20%
- 5 leveling & alignment mechanism – PP + 20% GF
- 6 Triple locking mechanism (3-actions): P.P + GF 20%
- 7 Sealing gaskets: EPDM
- 8 Steel angle bracket, 10 mm thick, galvanized & powder coated, spaced @250 mm c/c
- 9 Hexagon head bolt M12/35 + nut + 2 washers
- 10 Stainless steel threaded rod M12/170 + chemical anchor + HILTI + nut + washer



**NEW  
PRODUCTS**



### Glass Kit 3.0m

Leveling & Alignment Mechanism



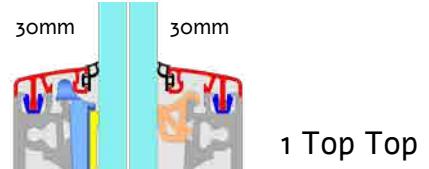
Triple Action Locking Mechanism



Glass Back Support



### Cover Sets Options



Cover Clips



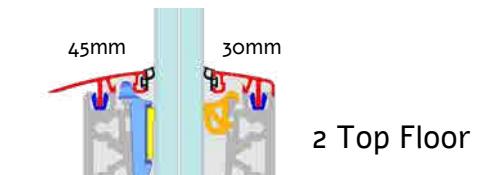
Epdm Sealing Gasket



Epdm Glass Spacers



1 Top Top



\* Must be cut by the installer

### Order Kit

Heavy Profile Side Mount –  
Brushed anodized



TK-8402

Glass Kit – 12 + 1.52 SGP + 12

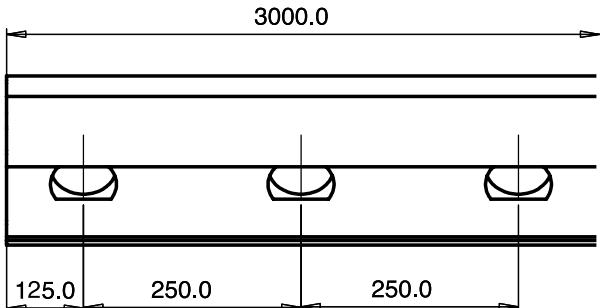
GK-25.52

Top Top – Cover

TTC82-1

Top Floor – Cover

TFC82-2



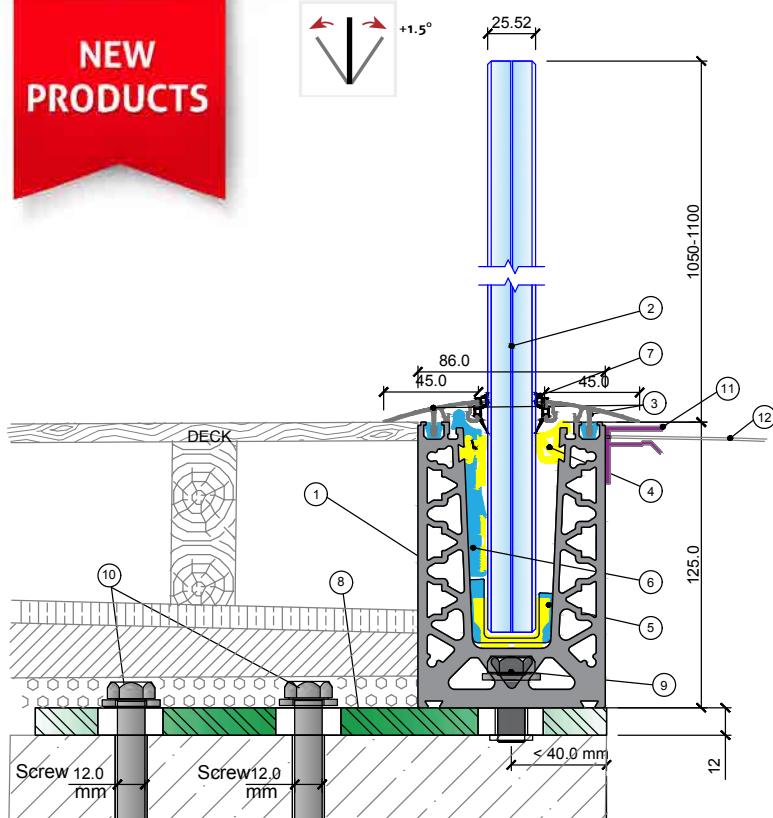
\*\* Different finishes are available upon request.

\*\*\* For End Caps, Handrails & Accessories – See page 28 – 30 of this manual.

# TK-8408 part | TK-8400 profile

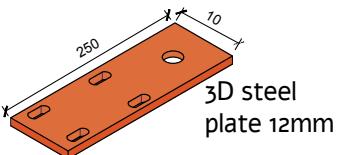
## Heavy Profile 3.0 KN (Installation on Steel Plate)

**NEW  
PRODUCTS**



- 1 Profile: TK-8400
- 2 Compatible with glass using SGP lamination: 12+1.52+12
- 3 Aluminum top cover rail
- 4 Glass back support profile: P.P + GF 20%
- 5 leveling & alignment mechanism – PP + 20% GF
- 6 Triple locking mechanism (3-actions): P.P + GF 20%
- 7 Sealing gaskets: EPDM
- 8 Steel base plate, 12 mm thick, galvanized & powder coated, spaced @250 mm c/c
- 9 Hexagon head bolt M12/35 + nut + 2 washers
- 10 Stainless steel threaded rod M12/170 + chemical anchor + HILTI + nut + washer

Top view of steel plate



## Glass Kit 3.0m

Leveling & Alignment Mechanism



X 6

Triple Action Locking Mechanism



X 12

Glass Back Support



Cover Clips



X 12

Epdm Sealing Gasket



2 X 3.00 m

Epdm Glass Spacers



1 X 10 CM

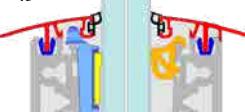
## Cover Sets Options

30mm



1 Top Top

45mm

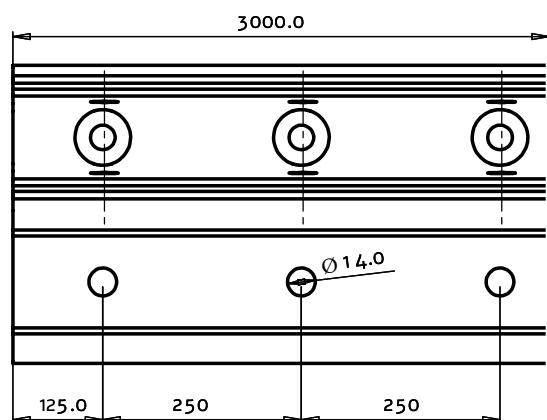


2 Floor Floor

\* Must be cut by the installer

## Order Kit

|  |          |
|--|----------|
| Heavy Profile Top Mount – Brushed anodized | TK-8400  |
| Glass Kit – 12 + 1.52 SGP + 12             | GK-25.52 |
| Top Top – Cover                            | TTC82-1  |
| Top Floor – Cover                          | TFC82-2  |



\*\* Different finishes are available upon request.

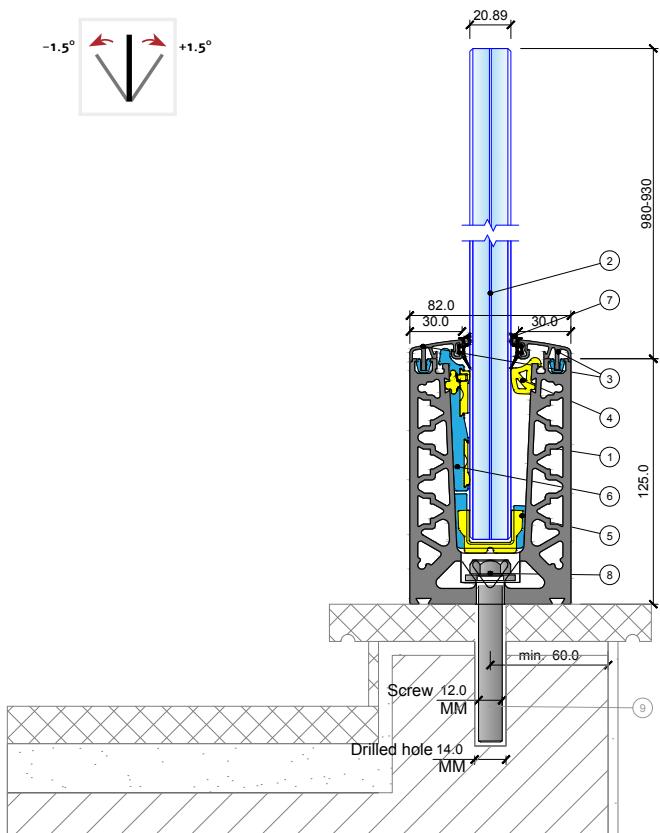
\*\*\* For End Caps, Handrails & Accessories – See page 28 – 30 of this manual.



**3.0 KN PROFILES**

# TK-8200 part | TK-8200 profile

Heavy profile 3.0 KN top mount



## Glass Kit 3.0m

Leveling & Alignment Mechanism



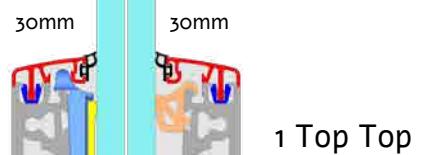
Triple Action Locking Mechanism



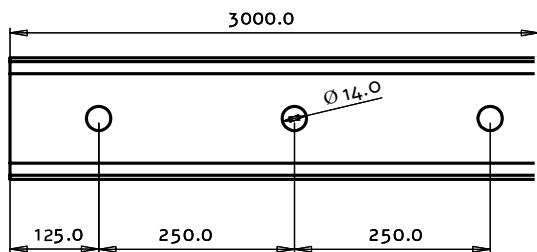
Glass Back Support



## Cover Sets Options



\* Must be cut by the installer



## Order Kit

Heavy Profile Cantilever Top Side Mount -  
Brushed anodaized



TK-8200

Glass Kit - 8 + 0.89 SGP + 8

GK-16.89

Glass Kit - 8 + 1.52 SGP + 8

GK-17.52

Glass Kit - 10 + 0.89 SGP + 10

GK-20.89

Glass Kit - 10 + 1.52 SGP + 10

GK-21.52

Top Top - Cover

TTC82-1

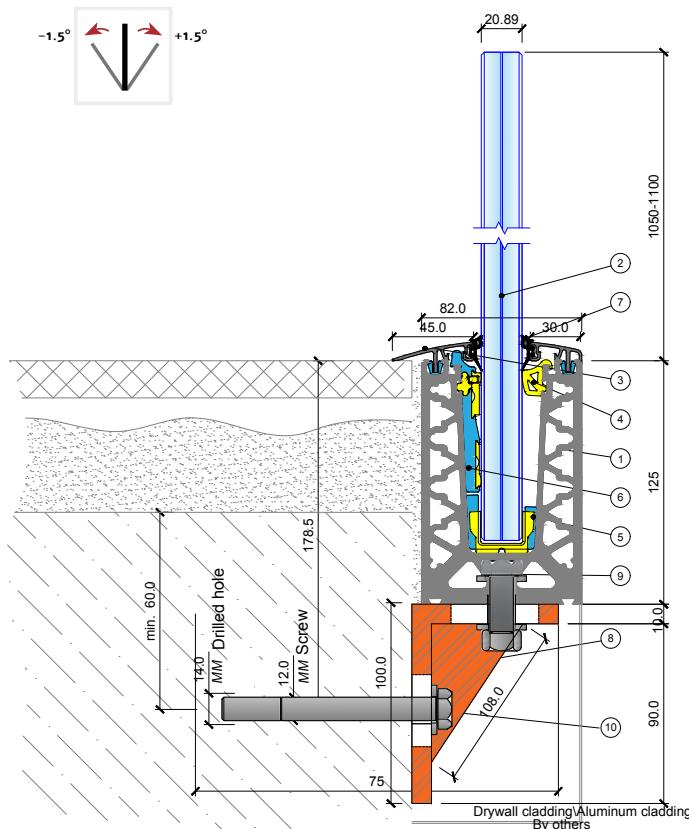
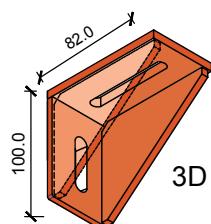
Top Floor - Cover

TFC82-2

\*\* Different finishes are available upon request.

\*\*\* For End Caps, Handrails & Accessories - See page 28 - 30 of this manual.

- 1 Profile TK-8200
- 2 Compatible with glass using SGP lamination:  
8 + 0.89 + 8  
8 + 1.52 + 8  
10 + 0.89 + 10  
10 + 1.52 + 10
- 3 Aluminum top cover rail
- 4 Rear stabilization profile for glass: P.P + GF 20%
- 5 Glass tilting and leveling mechanism: P.P + GF 20%
- 6 Triple locking mechanism (3-action): P.P + GF 20%
- 7 Sealing gaskets: EPDM
- 8 Steel angle bracket, 10 mm thick, galvanized & powder coated, spaced @250 mm c/c
- 9 Hexagon head bolt M12/35 + nut + 2 washer
- 10 Stainless steel threaded rod M12/170 + chemical anchor + HILTI + nut + washer



### Glass Kit 3.0m

Leveling & Alignment Mechanism



X 6

Triple Action Locking Mechanism



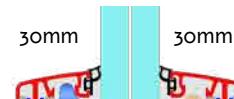
X 12

Glass Back Support



X 12

### Cover Sets Options



2 Top Top

Cover Clips



X 12

Epdm Sealing Gasket



2 X 3.00 m

Epdm Glass Spacers



1 X 10 cm



2 Top Floor

\* Must be cut by the installer

### Order Kit



Heavy Profile Cantilever Top Side Mount -  
Brushed anodaized

TK-8204

Glass Kit - 8 + 0.89 SGP + 8

GK-16.89

Glass Kit - 8 + 1.52 SGP + 8

GK-17.52

Glass Kit - 10 + 0.89 SGP + 10

GK-20.89

Glass Kit - 10 + 1.52 SGP + 10

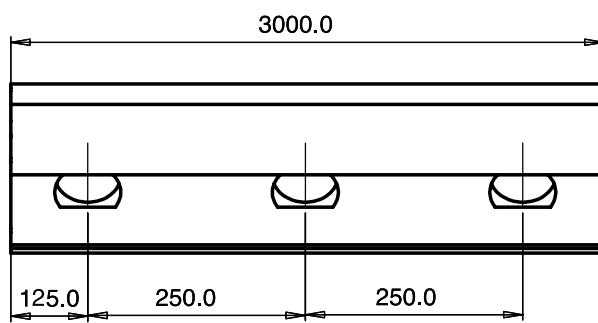
GK-21.52

Top Top - Cover

TTC82-1

Top Floor - Cover

TFC82-2

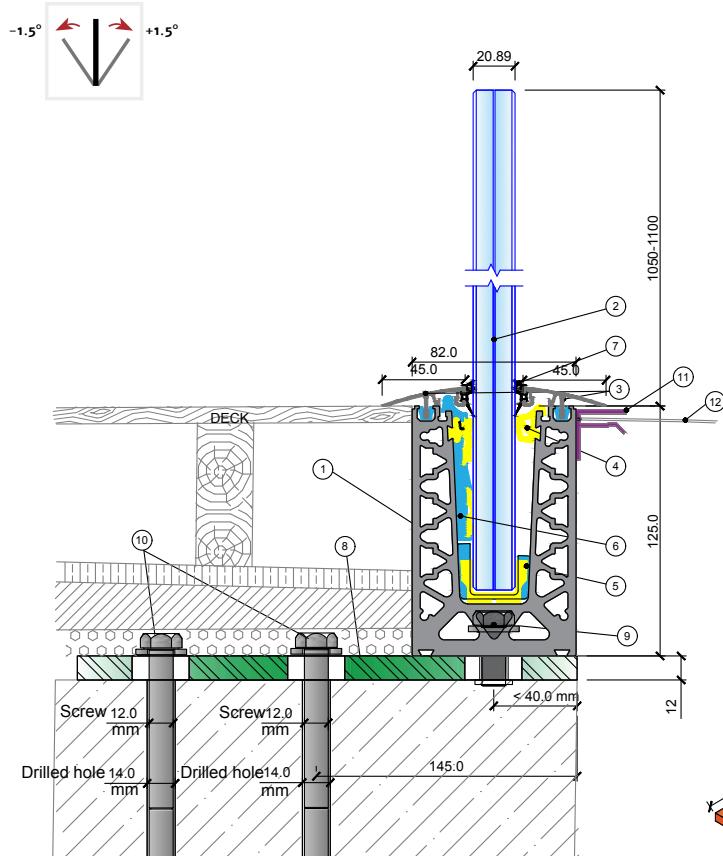


\*\* Different finishes are available upon request.

\*\*\* For End Caps, Handrails & Accessories - See page 28 - 30 of this manual.

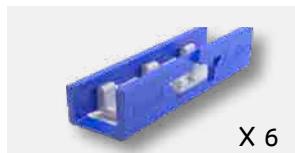
# TK-8208 part | TK-8200 profile

## Heavy Profile 3.0 KN (Installation on Steel Plate)



### Glass Kit 3.0m

Leveling & Alignment Mechanism



Triple Action Locking Mechanism



Glass Back Support



Cover Clips



Epdm Sealing Gasket



Epdm Glass Spacers



\* Must be cut by the installer



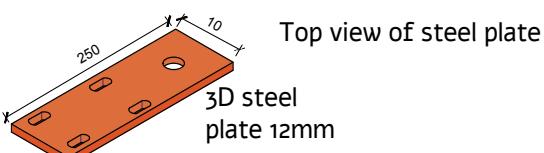
### Order Kit

|   |          |
|---|----------|
| Heavy Profile Cantilever Top Side Mount - Brushed anodaized | TK-8208  |
| Glass Kit - 8 + 0.89 SGP + 8                                | GK-16.89 |
| Glass Kit - 8 + 1.52 SGP + 8                                | GK-17.52 |
| Glass Kit - 10 + 0.89 SGP + 10                              | GK-20.89 |
| Glass Kit - 10 + 1.52 SGP + 10                              | GK-21.52 |
| Top Top - Cover   | TTC82-1  |
| Top Floor - Cover   | TFC82-2  |

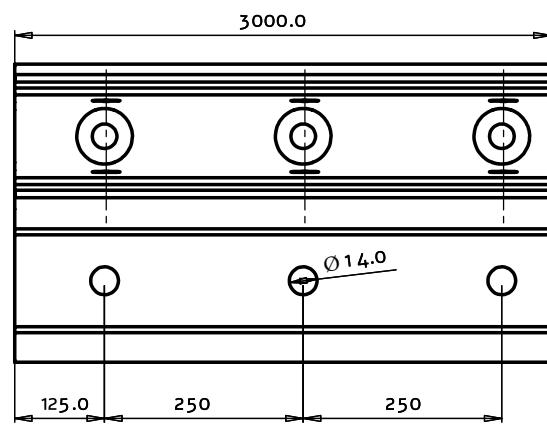
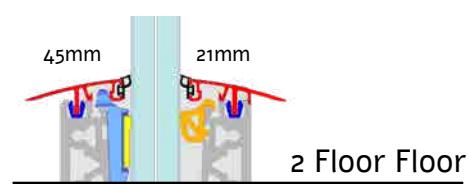
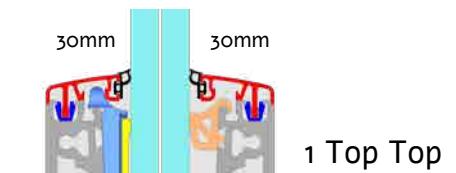
\*\* Different finishes are available upon request.

\*\*\* For End Caps, Handrails & Accessories - See page 28 - 30 of this manual.

- 1 Profile TK-8208
- 2 Compatible with glass using SGP lamination:  
8 + 0.89 + 8  
8 + 1.52 + 8  
10 + 0.89 + 10  
10 + 1.52 + 10
- 3 Aluminum top cover rail
- 4 Rear stabilization profile for glass: P.P + GF 20%
- 5 Glass tilting and leveling mechanism: P.P + GF 20%
- 6 Triple locking mechanism (3-action): P.P + GF 20%
- 7 Sealing gaskets: EPDM
- 8 Steel base plate, 12 mm thick, galvanized & powder coated, spaced @250 mm c/c
- 9 Hexagon head bolt M12/35 + nut + 2 washers
- 10 Stainless steel threaded rod M12/170 + chemical anchor + HILTI + nut + washer



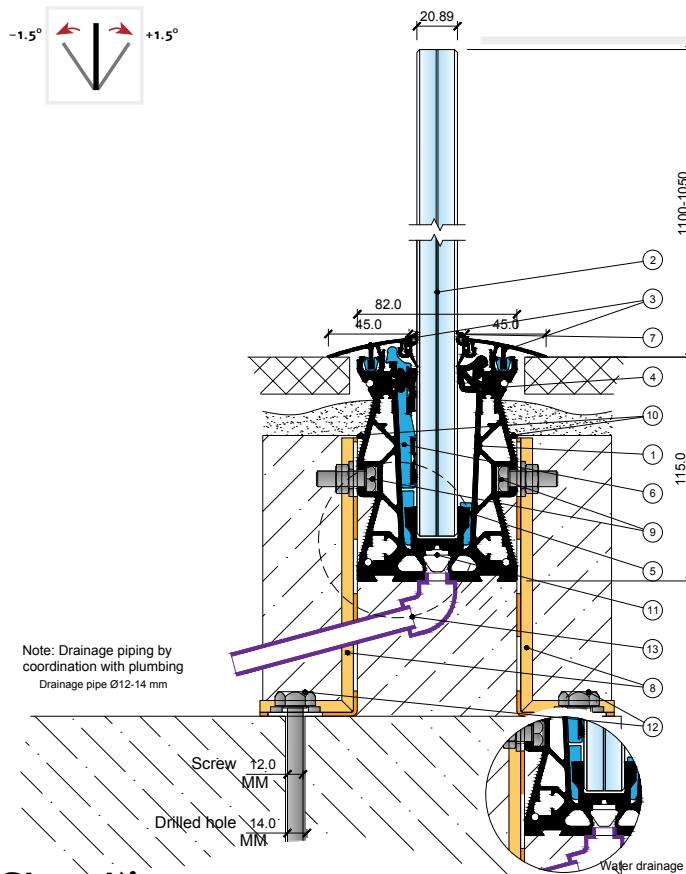
### Cover Sets Options







**CASTING PROFILE**



- 1 Profile TK-8250
- 2 Compatible with glass using SGP lamination:  
8 + 0.89 + 8  
8 + 1.52 + 8  
10 + 0.89 + 10  
10 + 1.52 + 10
- 3 Aluminum top cover rail
- 4 Rear stabilization profile for glass: P.P + GF 20%
- 5 Glass tilting and leveling mechanism: P.P + GF 20%
- 6 Triple locking mechanism (3-action): P.P + GF 20%
- 7 Sealing gaskets: EPDM
- 8 Leveling & elevation legs (for concrete floor) Galvanized and powder-coated steel
- 9 fastening kit: 8mm bolt, washers & nut ,per 3 meters
- 10 Casting height marker
- 11 Drainage holes (to be coordinated with client)
- 12 Concrete screw 6x80 mm + chemical anchor + HILTI + nut + washer
- 13 Drainage pipe Ø12-14 mm

### Glass Kit 3.0m

Leveling & Alignment Mechanism



Triple Action Locking Mechanism



Glass Back Support



Cover Clips



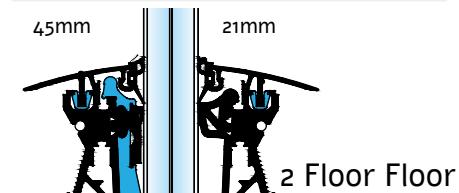
Epdm Sealing Gasket



Epdm Glass Spacers



### Cover Sets Options



Cast Profile Support



\* Must be cut by the installer

### Order Kit

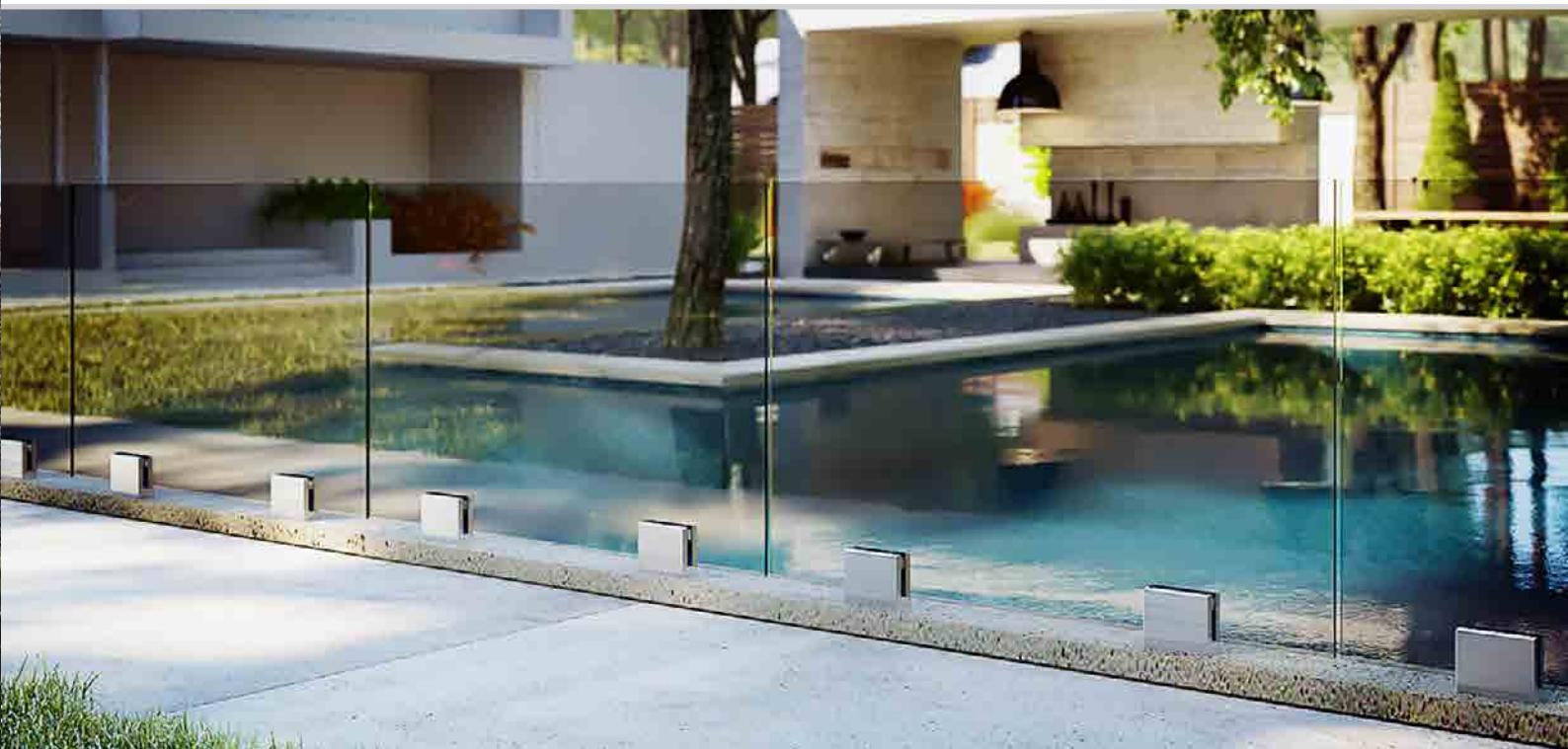
|                                |          |
|--------------------------------|----------|
| Casting Profile - Anodaized    | TK-8250  |
| Glass Kit - 8 + 0.89 SGP + 8   | GK-16.89 |
| Glass Kit - 8 + 1.52 SGP + 8   | GK-17.52 |
| Glass Kit - 10 + 0.89 SGP + 10 | GK-20.89 |
| Glass Kit - 10 + 1.52 SGP + 10 | GK-21.52 |
| Floor Floor - Cover            | TTC62-1  |

\*\* Different finishes are available upon request.

\*\*\* For End Caps, Handrails & Accessories - See page 28 - 30 of this manual.



**3 KN PROFILES**



## TK-8290

### Order Kit



|  |          |
|--|----------|
| Segmented heavy profile –<br>Brushed anodaized | TK-8250  |
| Glass Kit – 8 + 0.89 SGP + 8                   | GK-16.89 |
| Glass Kit – 8 + 1.52 SGP + 8                   | GK-17.52 |
| Glass Kit – 10 + 0.89 SGP + 10                 | GK-20.89 |
| Glass Kit – 10 + 1.52 SGP + 10                 | GK-21.52 |
| Top Top Cover                                  | TTC62-1  |
| Top Cover – Floor                              | TFC62-2  |

## TK-6290

### Order Kit



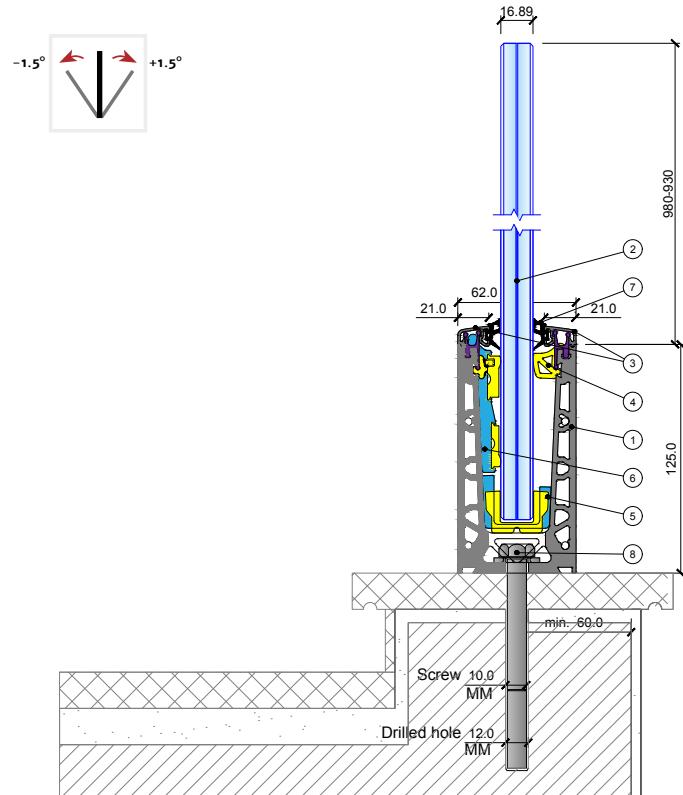
|   |          |
|---|----------|
| Segmented fine profile –<br>Brushed anodaized | TK-6290  |
| Glass Kit – 8 + 0.89 SGP + 8                  | GK-16.89 |
| Glass Kit – 8 + 1.52 SGP + 8                  | GK-17.52 |
| Glass Kit – 10 + 0.89 SGP + 10                | GK-20.89 |
| Glass Kit – 10 + 1.52 SGP + 10                | GK-21.52 |
| Top Top Cover                                 | TTC62-1  |
| Top Cover – Floor                             | TFC62-2  |

\*\* Different finishes are available upon request.

\*\*\* For End Caps, Handrails & Accessories – See page 28 – 30 of this manual.

# TK-6200 part | TK-6200 profile

## FINE PROFILE 1.5 KN TOP MOUNT



- 1 Profile TK-6200
- 2 Compatible with glass using SGP lamination:  
8 + 0.89 + 8  
8 + 1.52 + 8  
10 + 0.89 + 10  
10 + 1.52 + 10
- 3 Aluminum top cover rail
- 4 Rear stabilization profile for glass: P.P + GF 20%
- 5 Glass tilting and leveling mechanism: P.P + GF 20%
- 6 Triple locking mechanism (3-action): P.P + GF 20%
- 7 Sealing gaskets: EPDM
- 8 Stainless steel threaded rod M10/170 + chemical anchor + HILTI + nut + washer

### Glass Kit 3.0m

Leveling & Alignment Mechanism



X 6

Triple Action Locking Mechanism



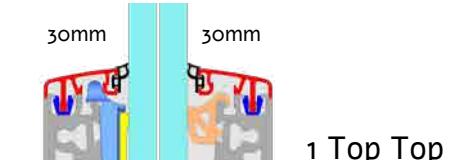
X 12

Glass Back Support

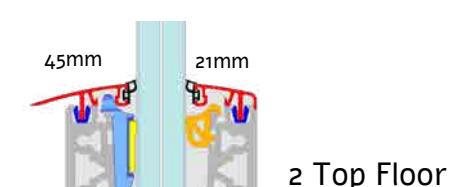


X 12

### Cover Sets Options

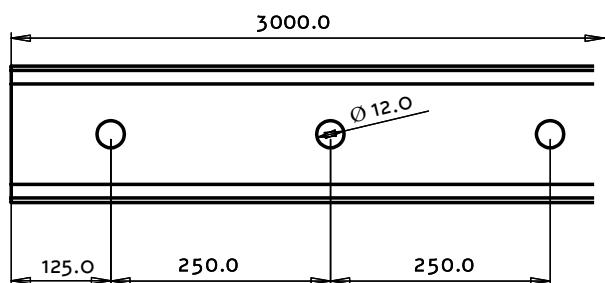


1 Top Top



2 Top Floor

\* Must be cut by the installer



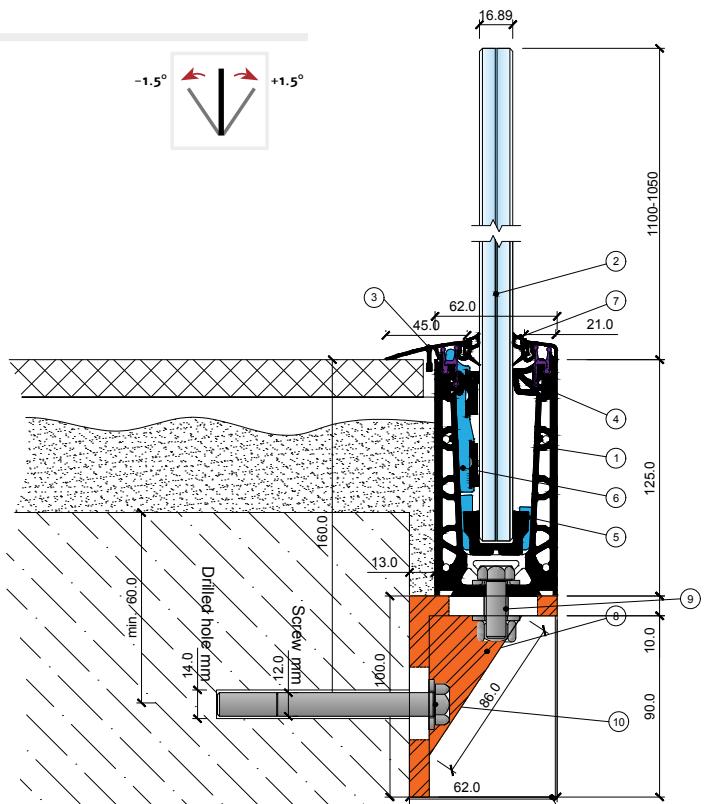
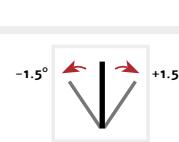
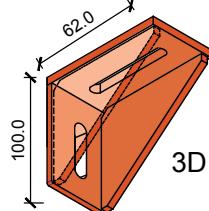
### Order Kit

|  |          |
|--|----------|
| Fine Profile Cantilever Top Side Mount -<br>Brushed anodized | TK-6200  |
| Glass Kit - 8 + 0.89 SGP + 8                                 | GK-16.89 |
| Glass Kit - 8 + 1.52 SGP + 8                                 | GK-17.52 |
| Glass Kit - 10 + 0.89 SGP + 10                               | GK-20.89 |
| Glass Kit - 10 + 1.52 SGP + 10                               | GK-21.52 |
| Top Top - Cover  | TTC62-1  |
| Top Floor - Cover  | TFC62-2  |

\*\* Different finishes are available upon request.

\*\*\* For End Caps, Handrails & Accessories - See page 28 - 30 of this manual.

- 1 Profile TK-6200
- 2 Compatible with glass using SGP lamination:  
8 + 0.89 + 8  
8 + 1.52 + 8  
10 + 0.89 + 10  
10 + 1.52 + 10
- 3 Aluminum top cover rail
- 4 Rear stabilization profile for glass: P.P + GF 20%
- 5 Glass tilting and leveling mechanism: P.P + GF 20%
- 6 Triple locking mechanism (3-action): P.P + GF 20%
- 7 Sealing gaskets: EPDM
- 8 Steel base plate, 10 mm thick, galvanized & powder coated, spaced @250 mm c/c
- 9 Hexagon head bolt M10/35 + nut + 2 washers
- 10 Stainless steel threaded rod M12/170 + chemical anchor + HILTI + nut + washer



### Glass Kit 3.0m

Leveling & Alignment Mechanism



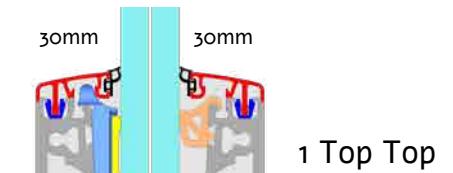
Triple Action Locking Mechanism



Glass Back Support



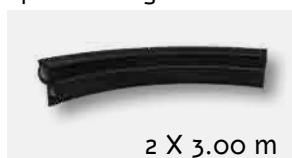
### Cover Sets Options



Cover Clips



Epdm Sealing Gasket



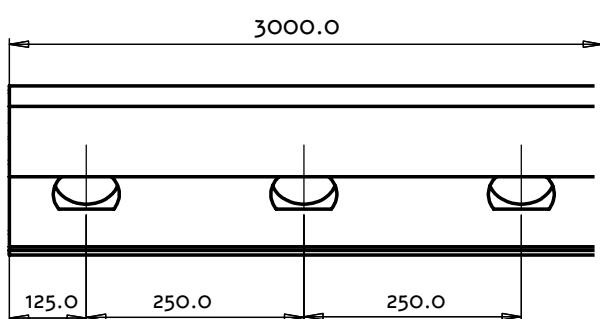
Epdm Glass Spacers



1 Top Top



\* Must be cut by the installer



### Order Kit

Fine Profile Cantilever Top Side Mount -  
Brushed anodized

TK-6204

Glass Kit - 8 + 0.89 SGP + 8

GK-16.89

Glass Kit - 8 + 1.52 SGP + 8

GK-17.52

Glass Kit - 10 + 0.89 SGP + 10

GK-20.89

Glass Kit - 10 + 1.52 SGP + 10

GK-21.52

Top Top - Cover

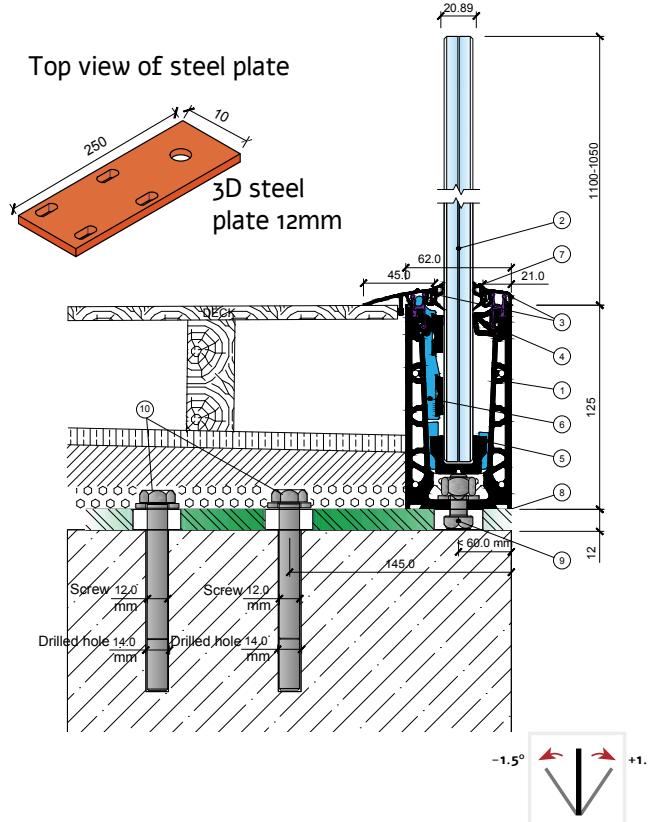
TTC62-1

Top Floor - Cover

TFC62-2

# TK-6208 part | TK-6200 profile

## FINE PROFILE 1.5 KN FOOT MOUNT



- 1 Profile TK-6200
- 2 Compatible with glass using SGP lamination:  
8 + 0.89 + 8  
8 + 1.52 + 8  
10 + 0.89 + 10  
10 + 1.52 + 10
- 3 Aluminum top cover rail
- 4 Rear stabilization profile for glass: P.P + GF 20%
- 5 Glass tilting and leveling mechanism: P.P + GF 20%
- 6 Triple locking mechanism (3-action): P.P + GF 20%
- 7 Sealing gaskets: EPDM
- 8 Steel angle bracket, 12 mm thick, galvanized & powder coated, spaced @250 mm c/c
- 9 Hexagon head bolt M10/35 + nut + 2 washers
- 10 Stainless steel threaded rod M12/170 + chemical anchor + HILTI + nut + washer

\*Drawing Notes: Steel plate thickness: 12 mm

### Glass Kit 3.0m

Leveling & Alignment Mechanism



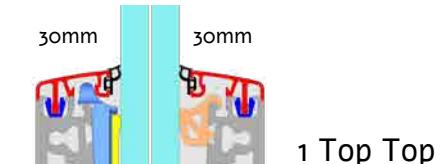
Triple Action Locking Mechanism



Glass Back Support



### Cover Sets Options



Cover Clips



Epdm Sealing Gasket

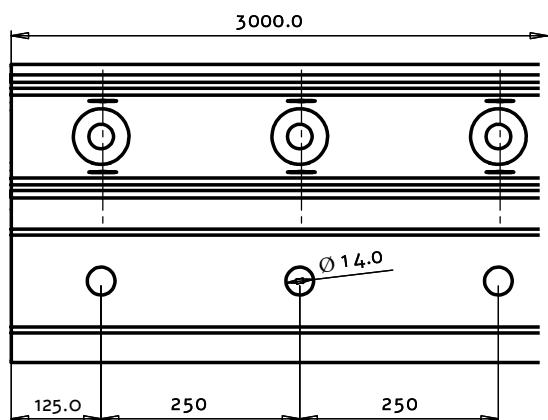


Epdm Glass Spacers



2 Floor Floor

\* Must be cut by the installer



### Order Kit

Fine Profile Cantilever Top Side Mount –  
Brushed anodized

TK-6208

Glass Kit – 8 + 0.89 SGP + 8

GK-16.89

Glass Kit – 8 + 1.52 SGP + 8

GK-17.52

Glass Kit – 10 + 0.89 SGP + 10

GK-20.89

Glass Kit – 10 + 1.52 SGP + 10

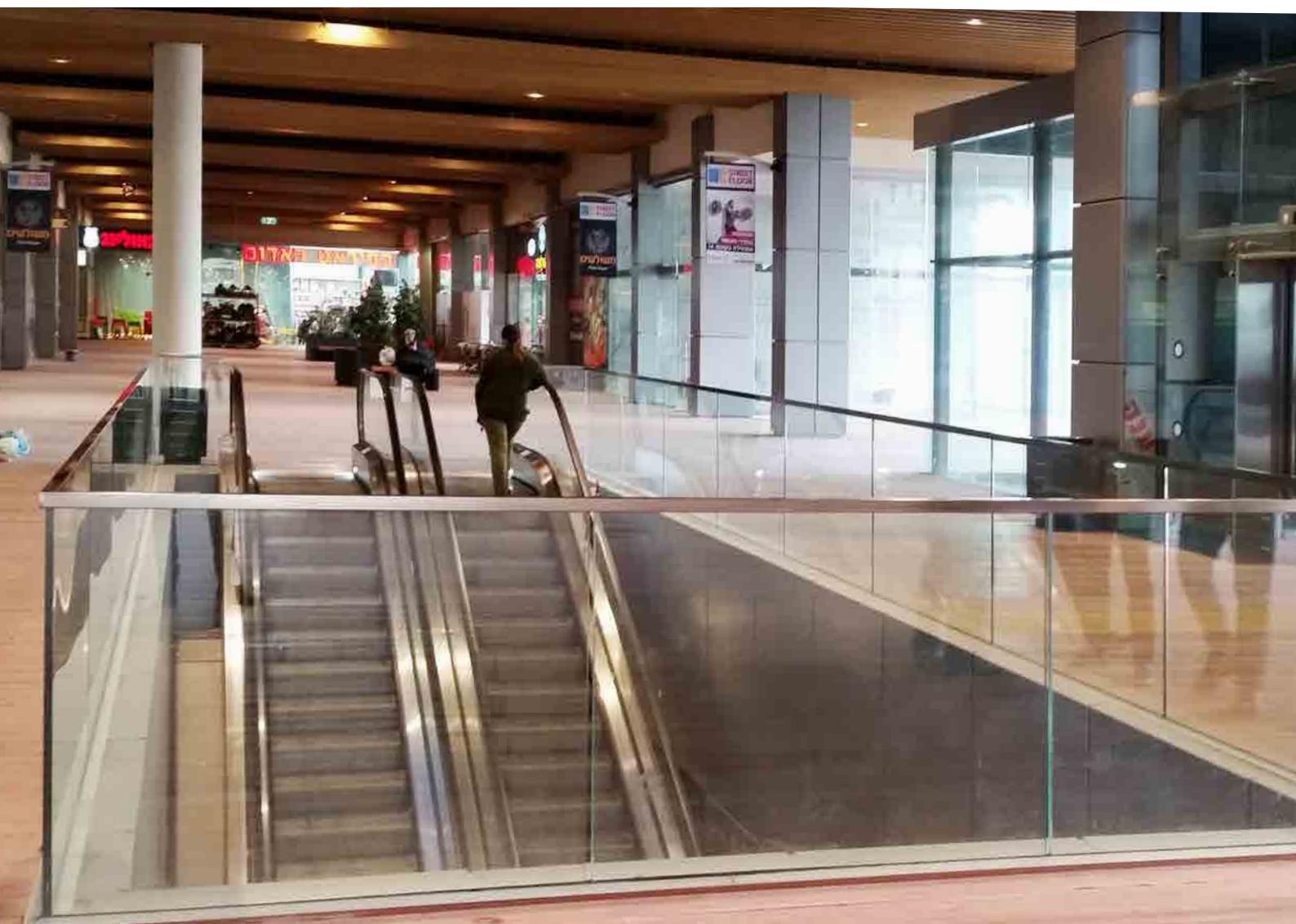
GK-21.52

Top Top – Cover

TTC62-1

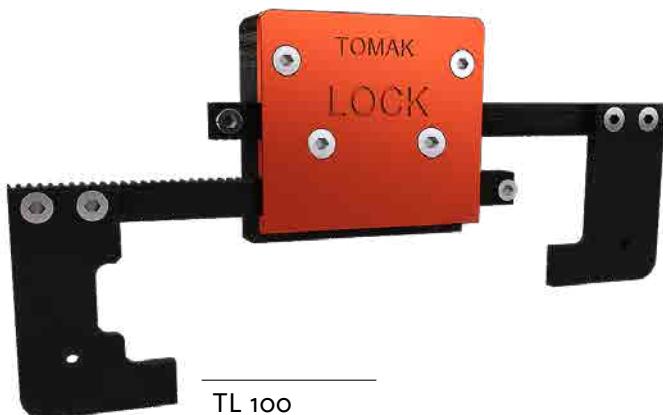
Top Floor – Cover

TFC62-2



## TOMAK TOOL BOX (INCLUDED)

### Lock



TL 100

### UnLock



TL 105

### Tomak Alignment Handle



TAL110

### Tomak Position Level



TPL115

### Tomak Extention Soket Bolt 1/2



TEX150

### Tomak Hammer



TH155

### Tomak Rachet 1/2 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





### Extention Square Profile Conector



250 Corner  
1 X 4 Set



255 Straight  
1 X 4 Set

### Shims



SH 82-1.5  
SH 82-3.0  
SH 82-6.0

SH 62-1.5  
SH 62-3.0  
SH 62-6.0

### Chemical Gun

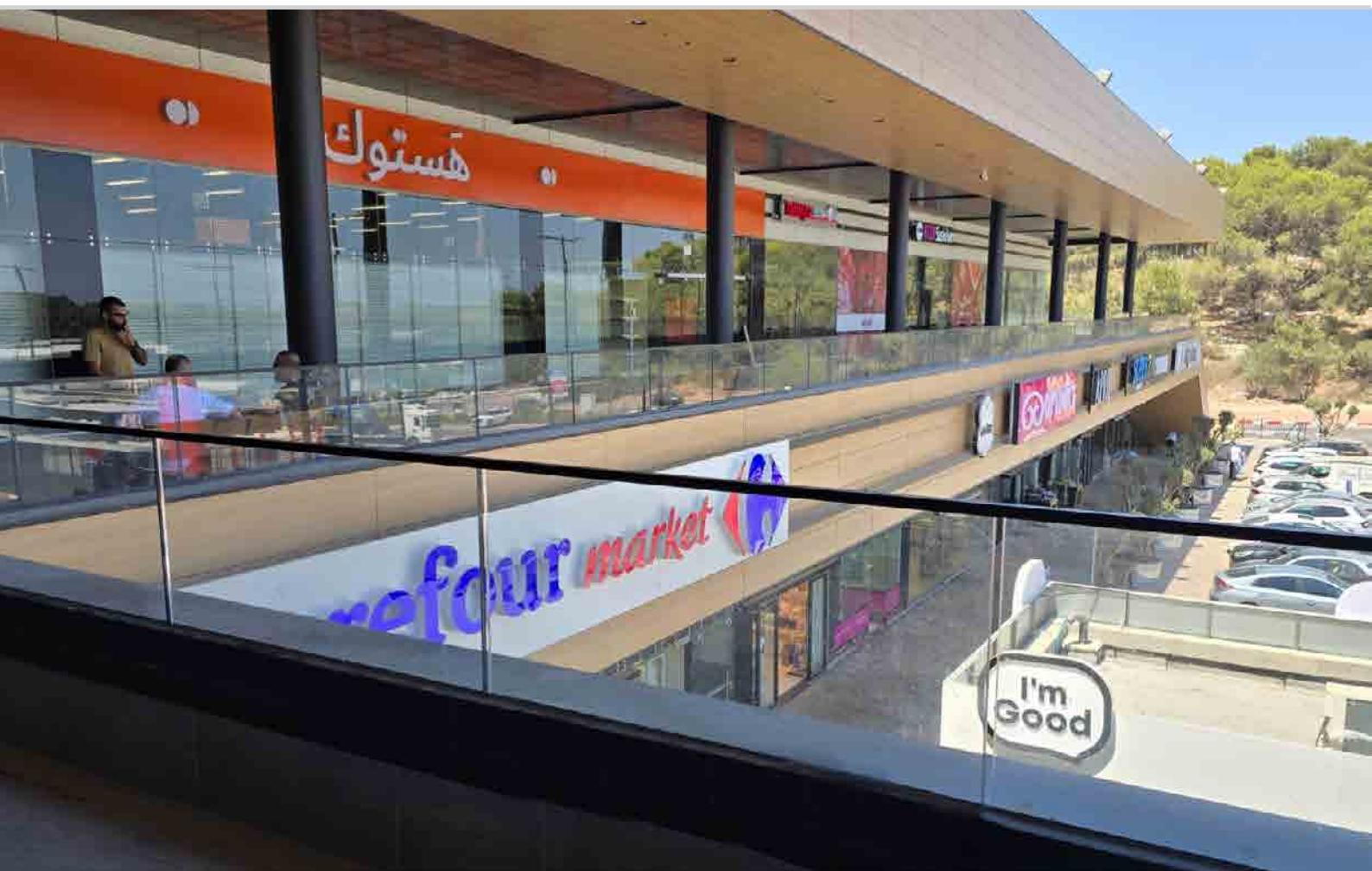


### Plastic Cover Protective

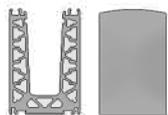


8260  
6260  
unit 1.0 m long  
set of 3 units

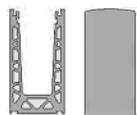
## COVER ENDS AND CORNERS



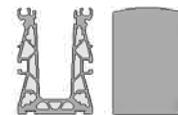
### Top profile cover end



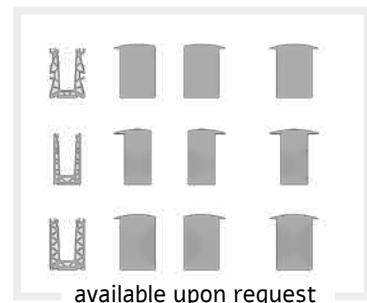
End cap TK8220



End cap TK6220



End cap TK8220



available upon request

### Industrialized corners

Fits 3.0KN Profile



TK 8200

Fits 1.5.0KN Profile

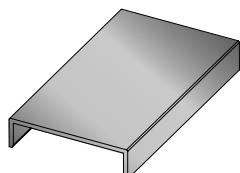


TK 6200

Fits Casting Profile



TK 8250



### Top profile cover for glass 10+10 / 12+12

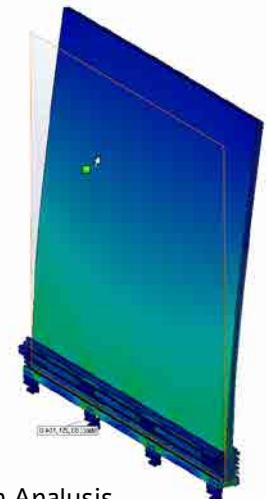
Reportnumber 89211059-02 | 12th January 2016  
16.A352 - EN1991-1-1

## Testresults

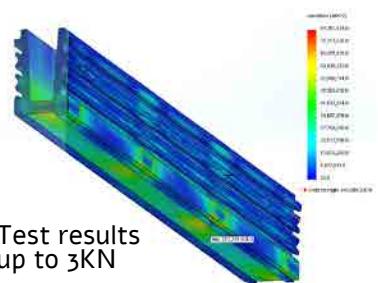
Test results after execution of the test(s) according to National Annex A, Static horizontal loads on parapets and wall partitions acting as barriers and National Annex B, Impact loads on parapets and wall partitions acting as barriers at a difference of heights of EN 1991-1-1 [1, 2]:

### 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 ( $q_{rep}$ ) 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<br>1 min  |           | n.a.             |
|                              | Rooms category B, C1  | 0,5 kN/m<br>1 min  |           | n.a.             |
|                              | Rooms category C2 to C4 and D   | 1,0 kN/m<br>1 min  | 1,15kN    | Pass             |
|                              | Rooms category C5   | 3,0 kN/m<br>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<br>5 min | 5,00kN    | Pass             |



Strength Analysis



Test results up to 3kN

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

### 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      |



| Requirement 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. |                                |                  |
| 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             |



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**Sigstar** | Branding & Graphic design

Metric (mm) edition

US  
patent



EU  
patent



US 16/331, 194

EP17848291.5



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NATIONAL GLASS ASSOCIATION with GANA

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