

Dear partners and home owners,

Thankyou for your interest in an AGS Systems product, by THEINVISIBLETOOLBOX.
In the following pages, you will find a compilation of all technical matters of relevance from the manufacturers of the Frame system.

Content:

- TST45 - Extrusion - A dimensioned Section view _____ Page 2
- TST45 - Technical Specifications _____ Page 3
- TST45 - Installation instructions _____ Page 9
- TST45 - Generic application details by AGS _____ Page 21

AGS solutions are of the highest technical credibility, and manufactured to excellent quality control standards.

The products are designed for easy installation, and a durable, beautiful result.

Installation details pertaining to any particular project may vary.

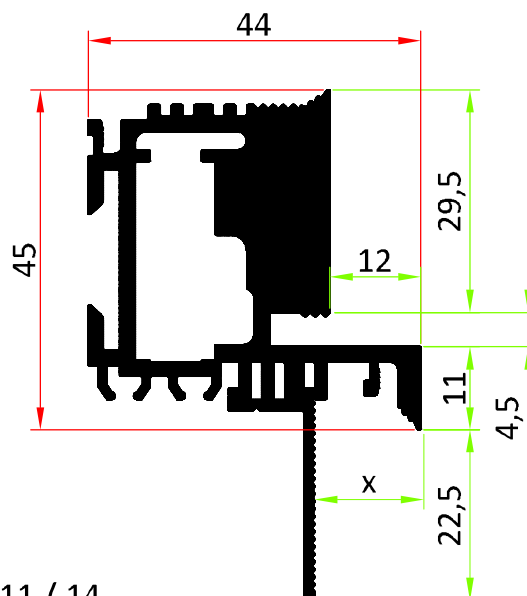
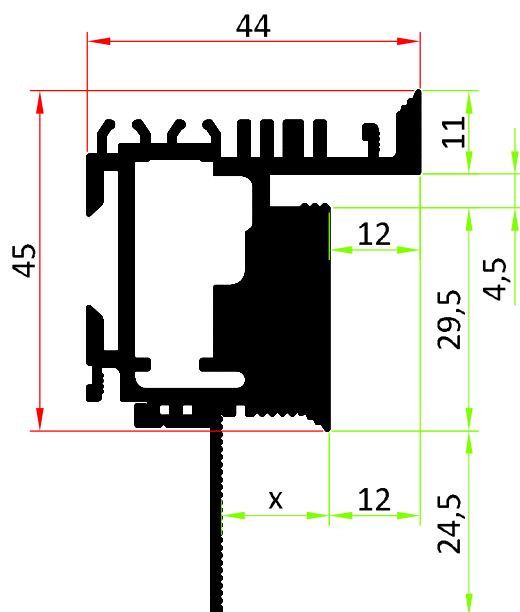
We encourage you to get in touch with us with any technical question: THEINVISIBLETOOLBOX will be happy to take your wall assembly specific requirements, and offer you a suitable CAD detail for an architectural application, where the relevant profile is detailed into your construction.

THEINVISIBLETOOLBOX, delivers technical support and sales services for the AGS product line in Canada. We are happy to be of service, to include sales support, guidance to tradesmen as well as take on complete door projects.

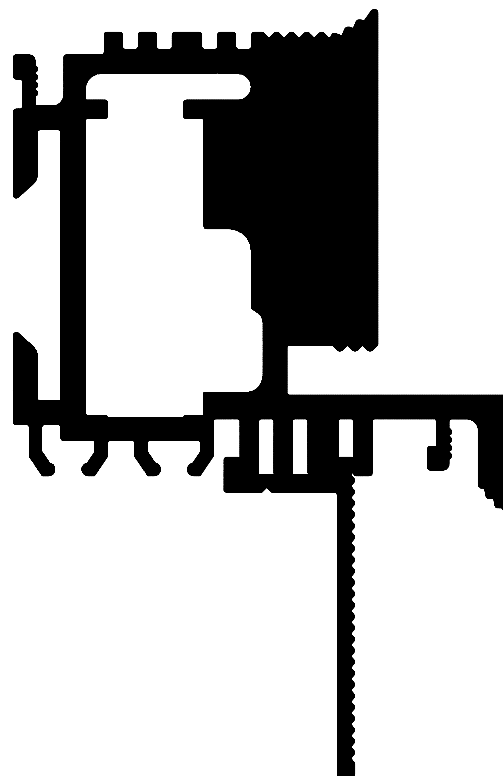
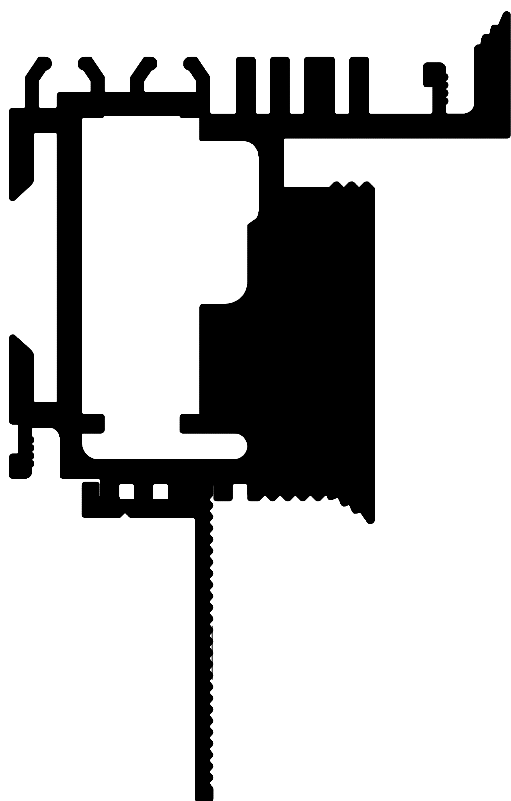
We look forward to hearing from you,
and taking part in your future opening challenges!
Best, THEINVISIBLETOOLBOX team.



THEINVISIBLETOOLBOX
SOUND PRINCIPLES FOR MINIMAL CONSTRUCTION
By KOMETSEI SE Inc. #36 Alberta Ave, Toronto Ontario. M6H-2R6
WWW.THEINVISIBLETOOLBOX.CA WWW.KOMETSEI SE.COM
INFO@THEINVISIBLETOOLBOX.CA Phone: 647.500.4103



$$x = 11 / 14$$



Frameless
Flush
Shadowgap
Solutions

AGSsystems

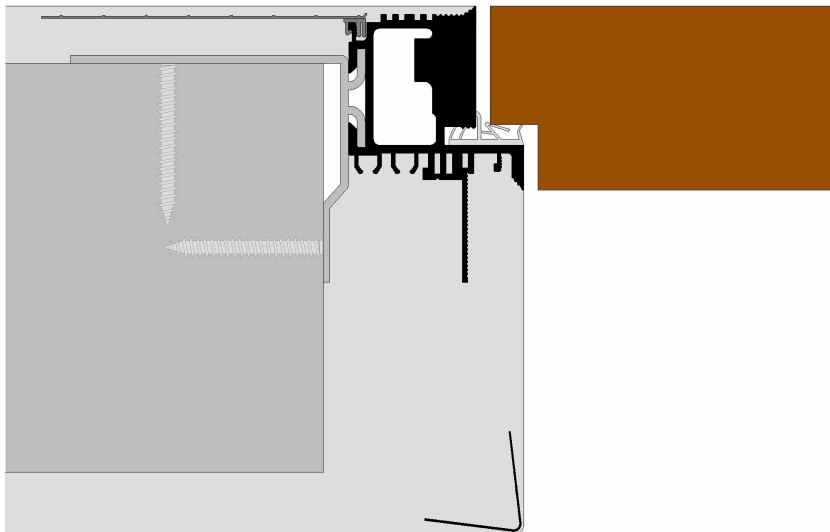
By
THEINVISIBLETOOLBOX.ca

SOUND PRINCIPLES FOR MINIMAL CONSTRUCTION
By KOMETSENSE Inc. #36 Alberta Ave, Toronto Ontario. M6H-2R6
WWW.THEINVISIBLETOOLBOX.CA WWW.KOMETSENSE.COM
INFO@THEINVISIBLETOOLBOX.CA Phone: 647.500.4103

AGS-Systems - 39025 Naturno (Italy)		
Drawing	TST45 Art.nr. 10130	
Scala 1:1	Date	08 09 2014
	Modified	

Technical data sheet

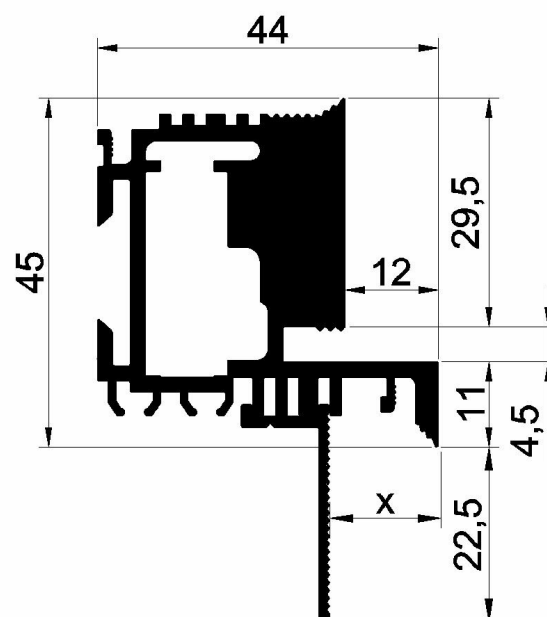
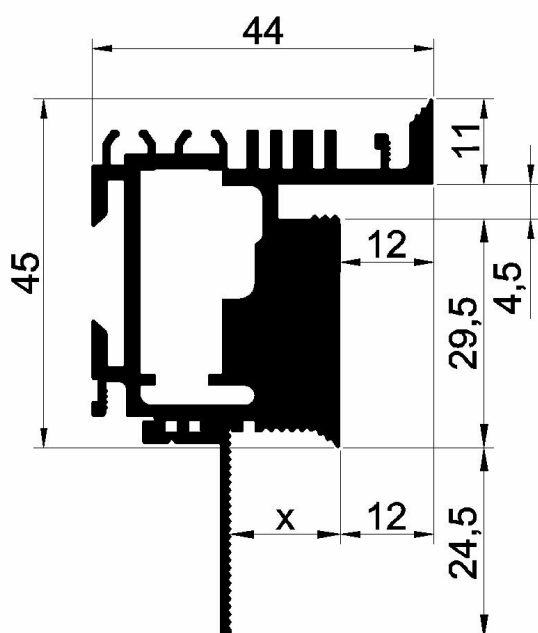
Model TST45 for inward/outward opening doors



Index

Profile detail.....	2
Recommendations.....	3
Suitable hinges.....	3
Suitable closing panels.....	3
Suitable seals.....	4
Door leaf.....	5
Inward opening doors.....	5
Outward opening doors.....	5

Profile detail



X = 11/14 mm

Model TST45

Suitable for solid and dry construction

The frame profiles are supplied mitre-cut to suit door size, and machined to suit concealed hinges, lock strikes and other hardware. In combination with the snapIn corner connectors and the mounting brackets, this enables quick assembly and professional installation. The snap-in mesh ensures no plaster cracks between wall and frame. Suits standard or floor-to-ceiling doors.

Recommendations

On the basis of detailed tests and long-term experiences our technical office has prepared a recommendation list regarding the selection of hinges, closing panels and seals. This lists are practical guidelines and non exhaustive.

Suitble hinges	
<i>Description</i>	<i>Weight</i>
AGB Eclipse 3.0	40/60 kg
Anselmi AN 150 3D	40 kg
Basys Pivota DX 42 3-D	40/52 kg
Basys Pivota DX 43	60 kg
Ceam 1129	40 kg
Krona Koblenz Kubica 2400	40/60 kg
Krona Koblenz Kubica 6400	30/45 kg
Krona Koblenz Kombi 3	40 kg
Otlav IN 230 120	40/60 kg
Simonswerk Tectus TE 240 3-D	60 kg

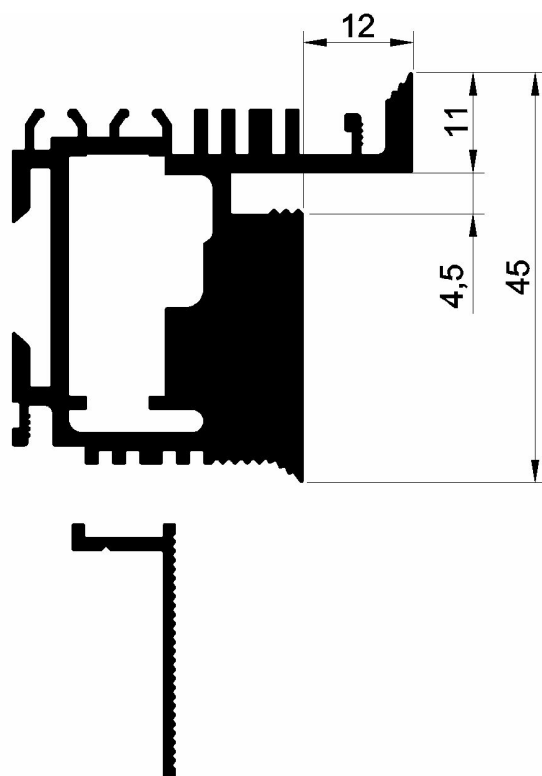
Suitable closing panels	
<i>Name</i>	<i>Item description</i>
Alban Giacomo SpA www.agb.it	AGB B01402.05.XX AGB B02402.28.XX AGB B01402.11.XX AGB B02402.09.XX AGB B02402.05.XX
Bonaiti Serrature SpA www.bonaiti.it	Bonaiti Noha Mini G992 Bonaiti GI98 Bonaiti GR95 Bonaiti GIS8 Bonaiti B998 Bonaiti 996 Bonaiti GS91 Bonaiti G995
Kaba GmbH www.kaba.de	Kaba CludoSB/MAG/210.20.2,0 Kaba Cludo SB12/MAG/VAR/DS Kaba Cludo SB*MAG/120.20.2,0/*

KFV Karl Fliether GmbH & Co. Kg www.kfv.de	KFV 116-200-20HR/41 KFV 116-245-20HR/41 KFV 116-245-18HR/41 KFV 116-120-20HR/41
Basys Stabilo Schließbleche www.basyshome.com	Basys SBL 2-L just. V3 L-R

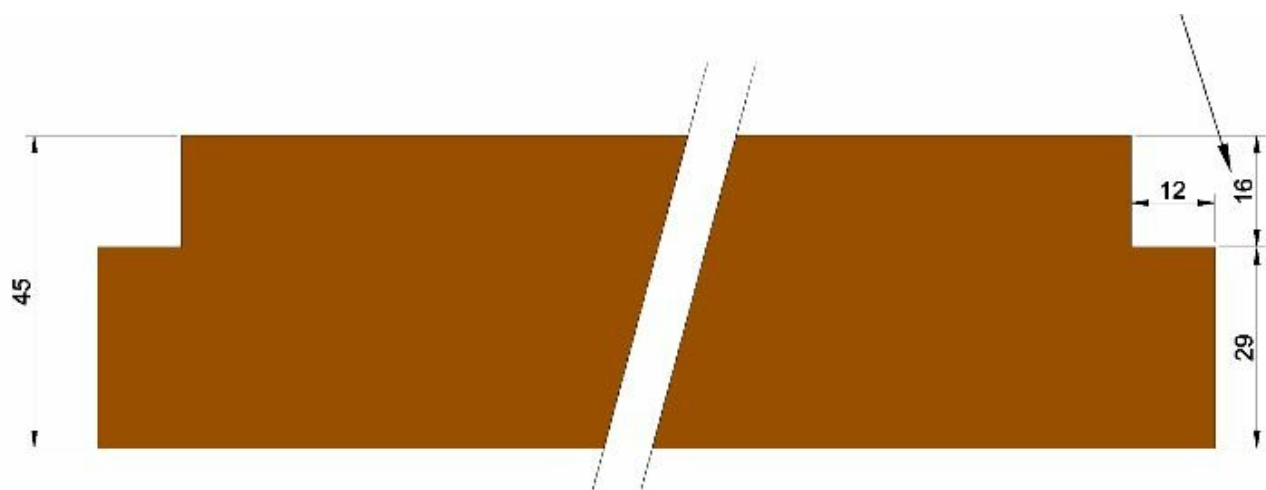
Suitable seals/gaskets	
<i>Producer</i>	<i>Item number</i>
Helmut Goll GmbH	A1020
Deventer Profile GmbH	S 6603 b
Deventer Profile GmbH	SP 7612
Primo Profile GmbH	ACF 5602 H
Schlegel GmbH	QL 3104
Schlegel GmbH	QL 3096

Door leaf

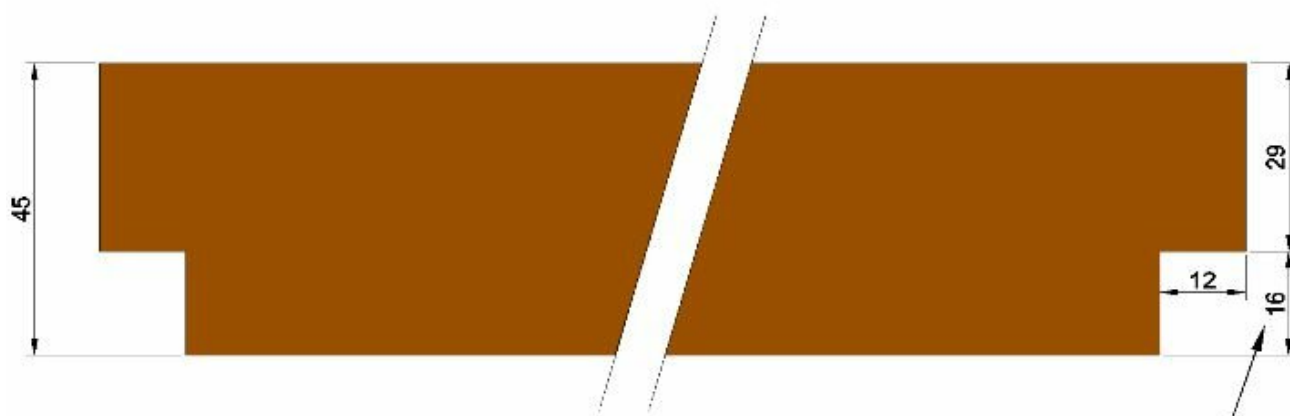
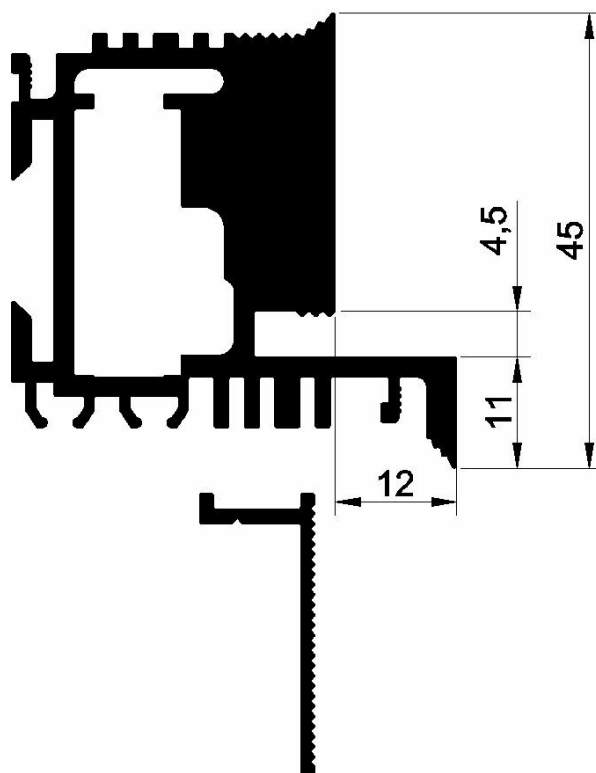
Inward opening doors



rebate dimension for 5mm door seal



Outward opening doors



rebate dimension for 5mm door seal

We guarantee for a high quality of our products. Our processing guidelines are based on tests and practical experiences; they are only indication without assurance of properties, we have no influence on condition of construction sites and the realizations of the works

Country specific regulations, which consist on regional standards, building regulations, processing and industrial guidelines, can guide to specific processing recommendations.

FOR ANY TECHNICAL QUESTIONS
PLEASE CONTACT-

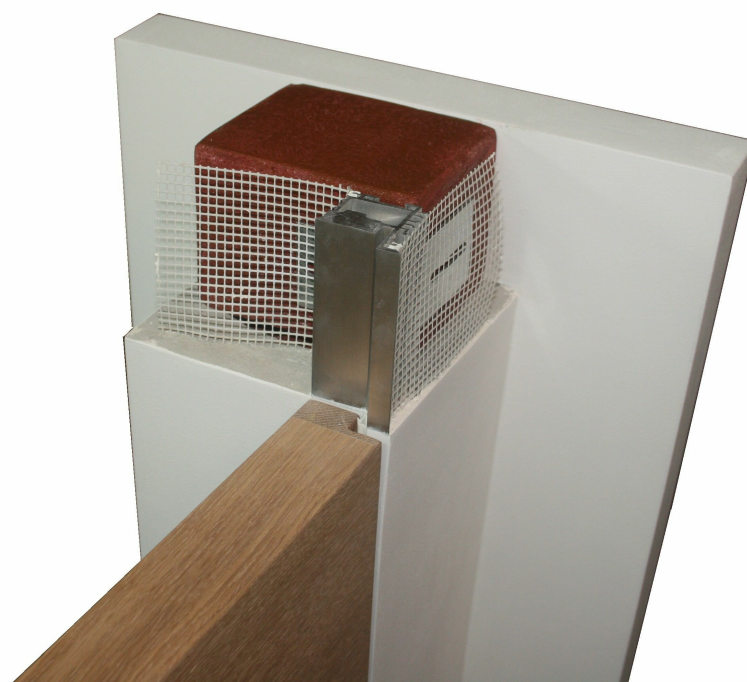
AGS Systems - Canada
By THEINVISIBLETOOLBOX
PH. 647.5004103
E. INFO@THEINVISIBLETOOLBOX.CA
WWW.THEINVISIBLETOOLBOX.CA 36
ALBERTA AVE. TORONTO ONTARIO.
M6H-2R6, CANADA.

Frameless
Flush
Shadowgap
Solutions

AGSsystems

By
THEINVISIBLETOOLBOX.ca

SOUND PRINCIPLES FOR MINIMAL CONSTRUCTION
By KOMETSENSE Inc. #36 Alberta Ave, Toronto Ontario, M6H-2R6
WWW.THEINVISIBLETOOLBOX.CA WWW.KOMETSENSE.COM
INFO@THEINVISIBLETOOLBOX.CA Phone: 647.500.4103



Montageanleitung Istruzioni d'assemblaggio Assembly instructions

TST40/45/56



Bei der Modellreihe TST handelt es sich um Aluminiumprofile zur Fertigung von FRAMELESS Zargen für den Massiv- und Trockenbau für in die Leibung öffnende als auch stumpf einschlagende Türen. Je nach Modell kann die entsprechende Zarge mit einer Türblattstärke von 40, 44/45 und 56 mm verbaut werden.

Die Aluminiumprofile werden auf Kundenwunsch angefertigt und, mit den entsprechenden Bohrungen für Scharniere und Schließblech, in Gehrung geschnitten angeliefert. Diese sind mit einer Schutzfolie versehen, werden im Set verpackt und inkl. aller Montage- und Befestigungsteile angeliefert.

Die Türprofile bestehen aus einer rohen unbehandelten Aluminiumlegierung. Zement und seine Derivate produzieren, bei Nässe, alkalische Substanzen welche, wenn man diese auf der Oberfläche der Aluminiumlegierung arbeiten lässt, zu Korrosion führen kann. Deshalb wird empfohlen die Profile immer frei von Zement, Kleber und Fugenmaterial zu halten. Die Korrosion wird durch die empfohlene bauseitige Grundierung und Lackierung des Profils in Wandfarbe verhindert.



Il modello TST è un profilo d'alluminio per porte a filo muro del tipo FRAMELESS per strutture massicce ed a secco per porte a spingere ed a tirare. Secondo il modello scelto sono possibili ante da 40, 44/45 e 56 mm.

Il telaio della porta viene prodotto secondo le esigenze del cliente come l'altezza, larghezza, spessore battente, numero delle cerniere, modello di cerniera e scontro per serratura. I profili sono muniti di una pellicola di protezione e vengono confezionati come kit, inclusi tutti gli accessori per un semplice e rapido montaggio.

I nostri profili porta consistono d'alluminio grezzo, non lavorato. L'alta umidità del cemento e dei suoi derivati producono sostanze alcaline che possono causare corrosioni. Per evitare questo consigliamo di tenere i profili sempre liberi di cemento, colle e altre sostanze corrosive. La corrosione può essere evitata anche verniciando i profili con delle apposite lacche. Tuttavia l'alluminio non è resistente a tutte le composte chimiche.



The aluminium profiles TST are used to create FRAMELESS doors for solid and dry constructions for inswing and outswing doors. Depending on the door type the frame can be installed with 40, 44/45 and 56 mm door leaf thickness.

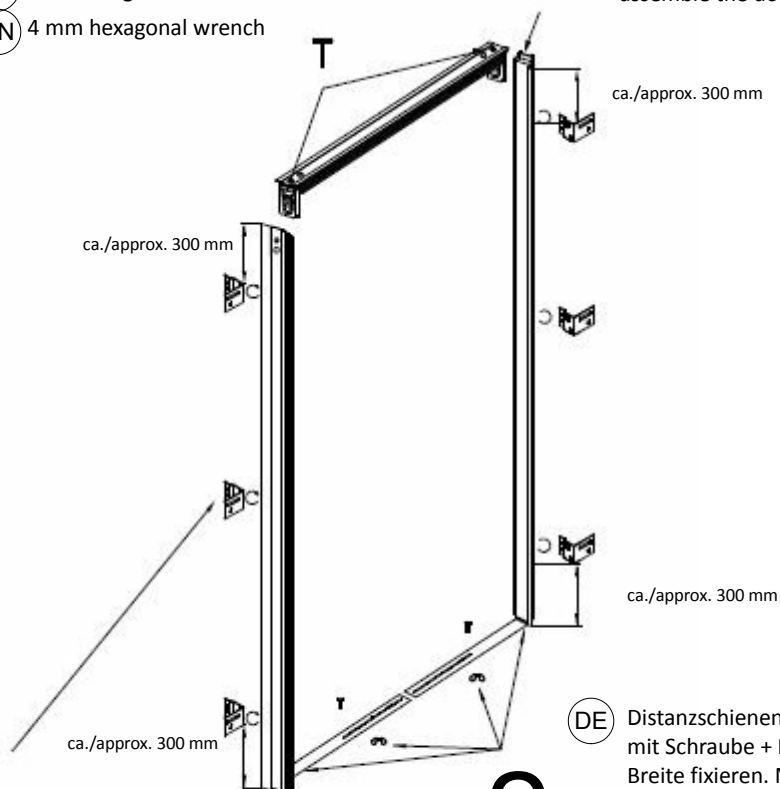
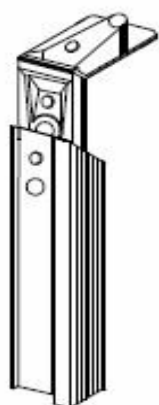
The TST profiles are supplied mitre-cut to suit door size and milled to suit hidden hinges and striking panels as well as other hardware. All profiles are covered by a protective film and packed/delivered in a kit including the mounting- and fixing accessories.

The door profiles are made out of raw untreated aluminium. Cement and his derivatives produce alkaline substances when getting wet, which can provoke corrosion if they have time to work on the surface of the aluminium alloy. We recommend to keep the profiles clear from cement, glue and joints material. The above mentioned corrosion will be prevented by the recommended priming and finishing of the profiles in wall colours.

- 1**
- DE Eckverbinder bis zum Einrasten einschieben und Türlarge zusammensetzen (Detail A)
 - IT Inserire gli angolari ed assemblare il telaio (dettaglio A)
 - EN Insert the corner connector until they snap-in and assemble the door frame (detail A)

- DE 4 mm Sechskantschlüssel
- IT 4 mm brugola
- EN 4 mm hexagonal wrench

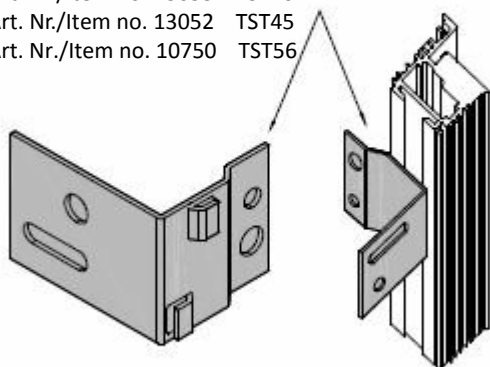
Detail/Dettaglio A



- 2**
- DE Distanzschienen bis auf Anschlag einbringen und mit Schraube + Flügelmutter auf entsprechende Breite fixieren. Maximale Breite 1000 mm (Detail B)
 - IT Inserire i distanziali fino alla battuta e fissarli con vite e dado ad alette alla larghezza adeguata (dettaglio B)
 - EN Insert the bottom spreader bars to the limit top and fix it with screws + wing nut on the appropriate width. Maximum width 1000 mm (detail B)
- 3**
- DE Befestigungsbügel auf der Baustelle eindrehen (Detail C)
 - IT Inserire le staffe di fissaggio (dettaglio C)
 - EN Screw-in the wall fixing brackets at site (detail C)

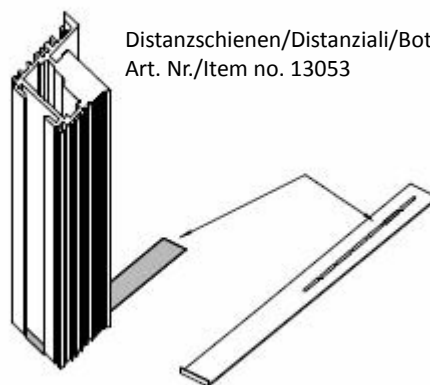
Detail/Dettaglio C

Befestigungsbügel/Staffe di fissaggio/Wall fixing brackets
Art. Nr./Item no. 13055 TST40
Art. Nr./Item no. 13052 TST45
Art. Nr./Item no. 10750 TST56



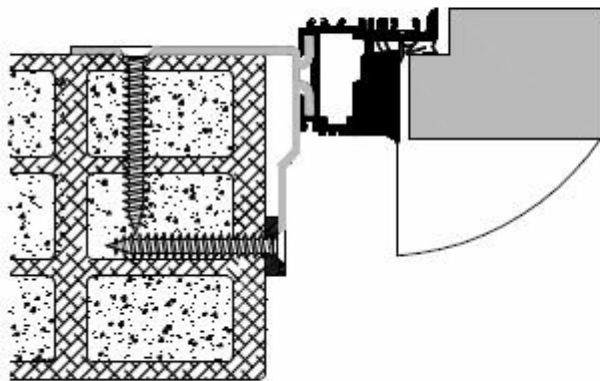
Detail/Dettaglio B

Distanzschienen/Distanziali/Bottom spreader bar
Art. Nr./Item no. 13053

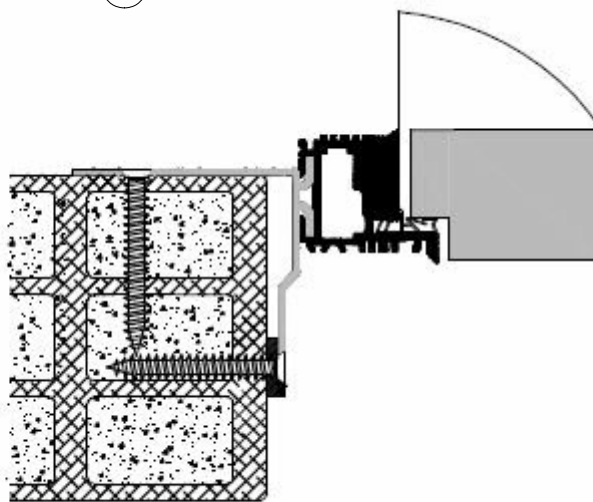


Detail/Dettaglio E

- DE Zargenmontage für in die Leibung öffnende Türen
- IT Montaggio telaio per porte a spingere
- EN Frame installation for inswing doors

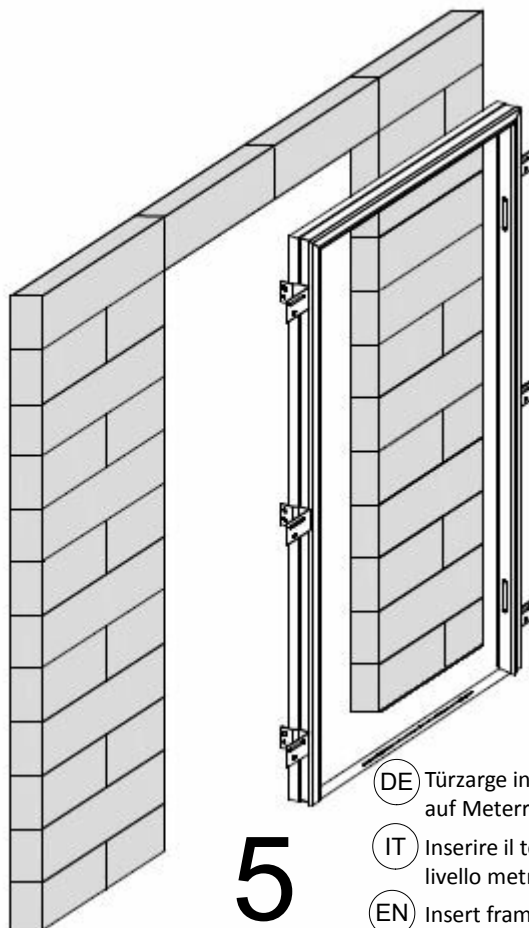


- DE Zargenmontage für stumpf einschlagende Türen
- IT Montaggio telaio per porte a tirare
- EN Frame installation for outswing doors



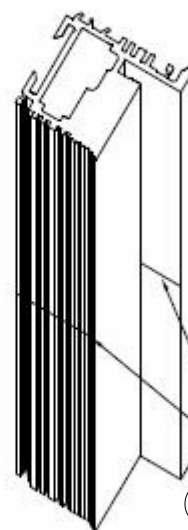
4

- DE Montage der Zarge als in die Leibung öffnende oder stumpf einschlagende Türen (Detail E)
- IT Montaggio telaio per porte a spingere o tirare (dettaglio E)
- EN Frame installation for inswing or outswing doors (detail E)



5

- DE Türzarge in die Maueröffnung einsetzen und auf Meterriss einrichten (Detail D)
- IT Inserire il telaio nel foro muro e adattarlo al livello metrico (dettaglio D)
- EN Insert frame in the wall opening and set it up on the meter level (detail D)

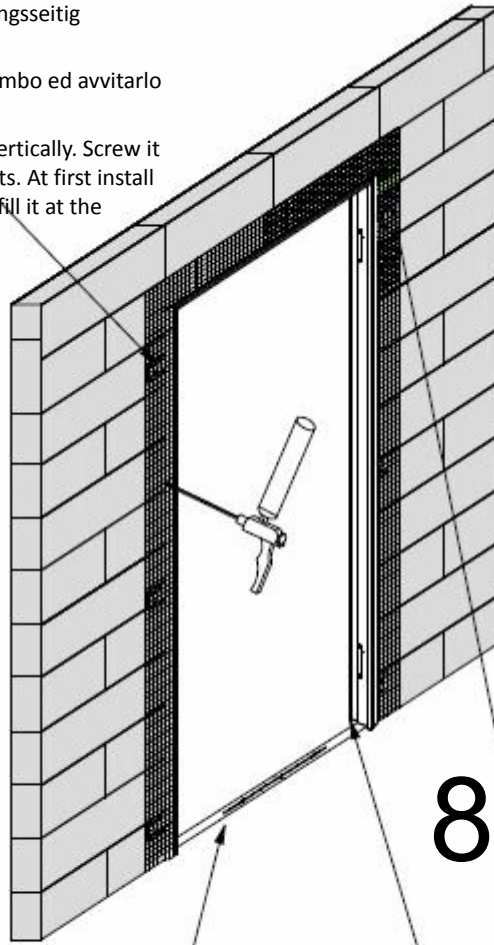


Detail/Dettaglio D

- DE Meterriss
- IT Livello metrico
- EN Meter level

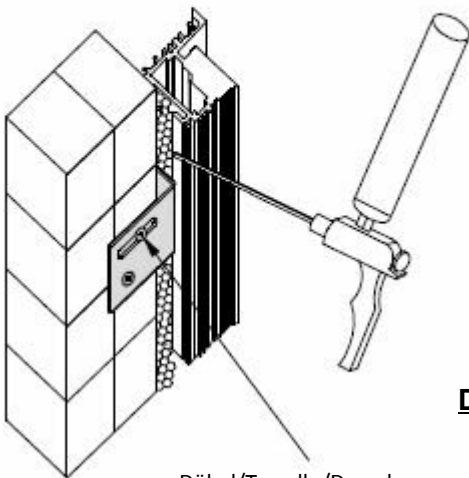
6

- (DE) Türlarge horizontal und vertikal ausrichten und an allen Befestigungsbügeln verschrauben. Zuerst wandseitig befestigen danach leibungsseitig hinterfüllen und fixieren (Detail F)
- (IT) Regolare e spessorare il telaio a piombo ed avvitarlo alle staffe di fissaggio. (dettaglio F)
- (EN) Adjust the frame horizontally and vertically. Screw it together with the wall fixing brackets. At first install it at wall side and then fix and backfill it at the reveal side (detail F)



7

- (DE) Nach Befestigung die Zarge vollvolumig mit handelsüblichen PU-Montagekleber hinterfüllen
- (IT) Dopo il fissaggio riempire gli spazi rimanenti con una colla poliuretanic
- (EN) After fixation of the frame backfill it completely with a commercial PU-mounting adhesive



9

- (DE) Nach Befestigung und Hinterfüllung der Zarge die Distanzschiene entfernen
- (IT) Rimuovere il distanziale dopo aver fissato e riempito gli spazi vuoti del telaio
- (EN) After fixing and backfilling of the frame remove the bottom spreader bar

8

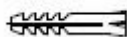
- (DE) Plastiksteg beim Putznetz oben an der Zargengehrung 10 cm entfernen, Putznetz einklicken (Detail G) und an den Ecken überlappen (Detail H)
- (IT) Rimuovere 10 cm del profilo di plastica della rete d'armatura ed incastrarla nel telaio. (dettaglio G) Sovrapporre la rete negli angoli (dettaglio H)
- (EN) Cut 10 cm of the plastic profile of the mesh at the mitre spot and click it in (detail G) and overlap the mesh on the angles (detail H)

10

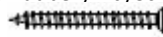
- (DE) Aufsteckprofil mit mitgelieferten Kleber auf Zarge aufkleben und bis zur Weiterverarbeitung mind. 12 Stunden trocknen lassen (Detail I)
- (IT) Incollare il profilo aggiuntivo con l'apposita colla sul telaio e lasciarlo asciugare per almeno 12 ore (dettaglio I)
- (EN) Stick the detachable profile on the frame using the delivered mounting adhesive and let them dry at least 12 hours before processing the works (detail I)

Detail/Dettaglio F

Dübel/Tassello/Dowel



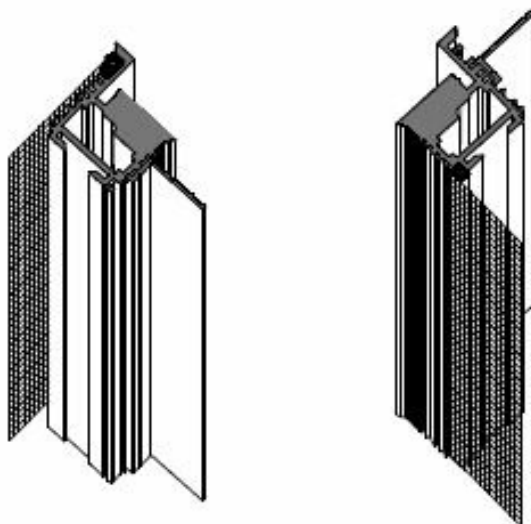
Schrauben/Viti/Screws



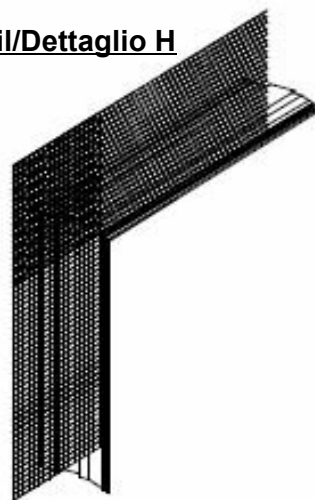
Rahmenschrauben/Viti per telai/Frame screws



Detail/Dettaglio G



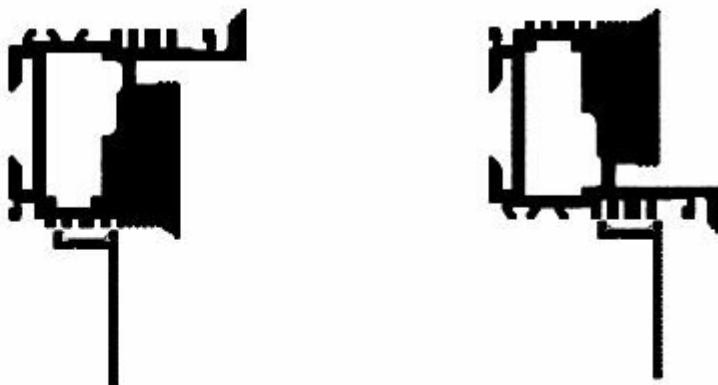
Detail/Dettaglio H



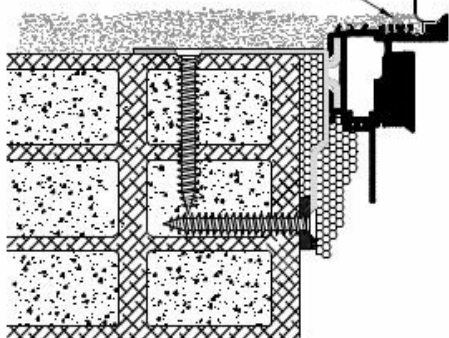
Kleber/Colla di montaggio/Mounting adhesive



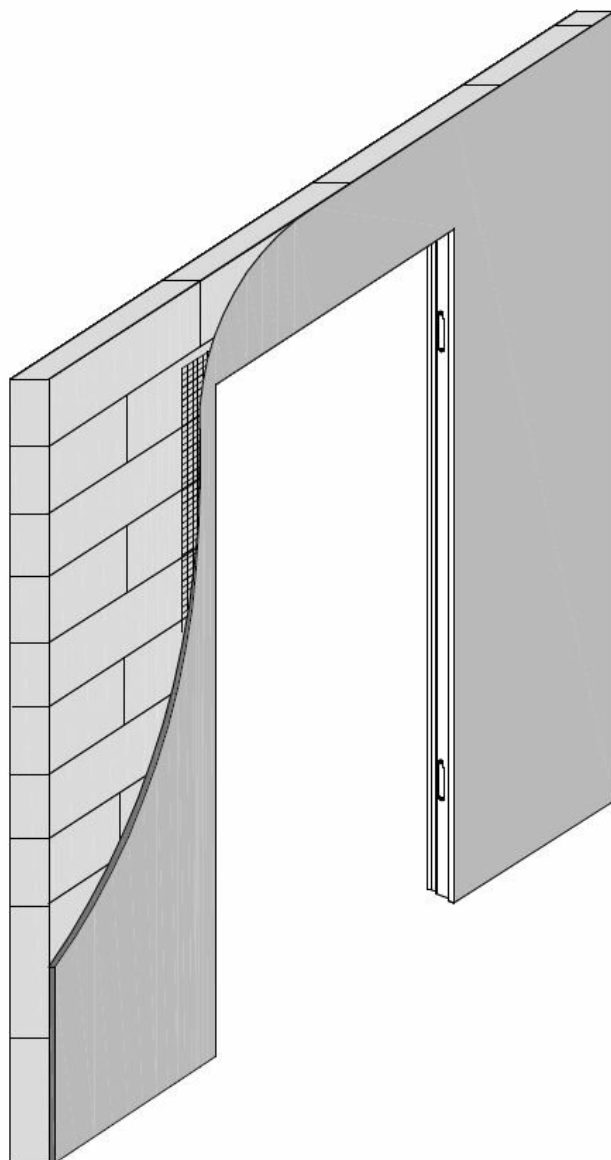
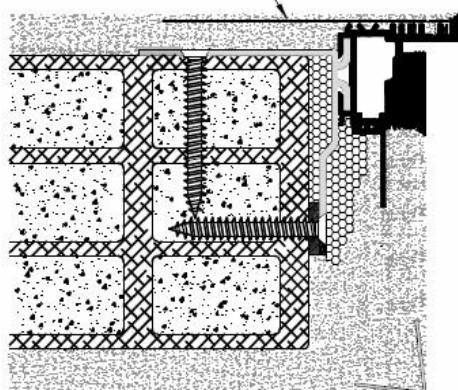
Detail/Dettaglio I



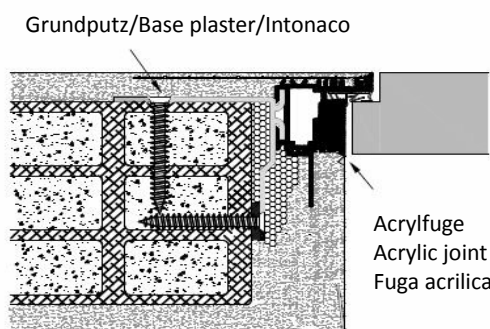
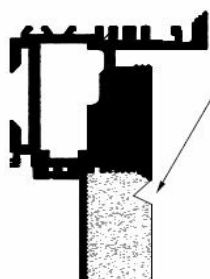
- 11**
- (DE) Putznetz nach vorne klappen, Grundputz vollflächig auftragen und alle Hohlräume schließen
 - (IT) Applicare l'intonaco su tutte le superficie senza lasciare camere d'aria dietro la rete d'armatura
 - (EN) Fold the mesh forward, fully add the base plaster and close the cavities



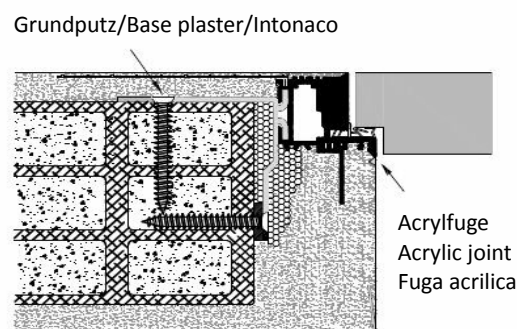
- 12**
- (DE) Putznetz in Grundputz einbringen und einarbeiten
 - (IT) Inserire la rete d'armature nell'intonaco
 - (EN) Insert and include the mesh to the base plaster



- 13**
- (DE) An der Leibungsseite V-Fuge mit Acryl schließen (Detail J)
 - (IT) Sigillare la fuga con silicone acrilico (dettaglio J)
 - (EN) Close the V-joint with acryl at the reveal side (detail j)



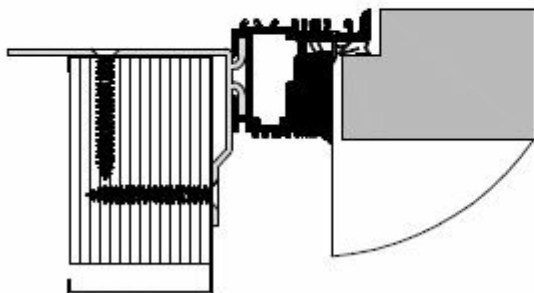
Detail/Dettaglio J



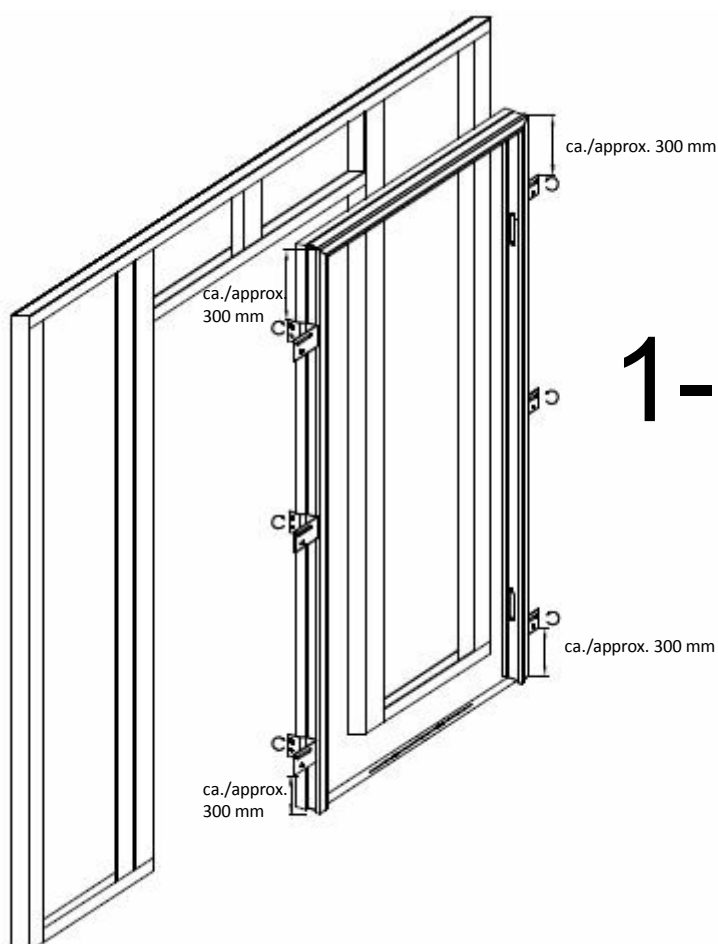
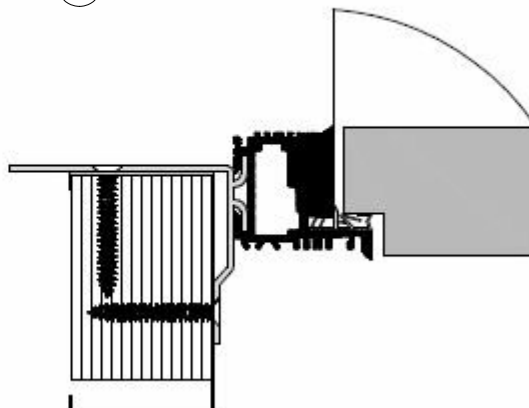
Detail/Dettaglio J

Detail/Dettaglio E

- DE Zargenmontage für in die Leibung öffnende Türen
- IT Montaggio telaio per porte a spingere
- EN Frame installation for inswing doors

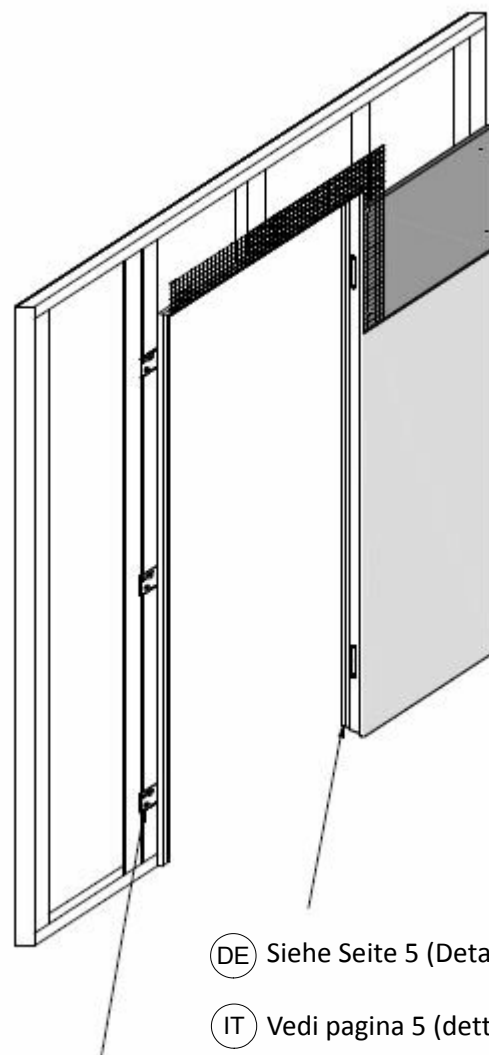
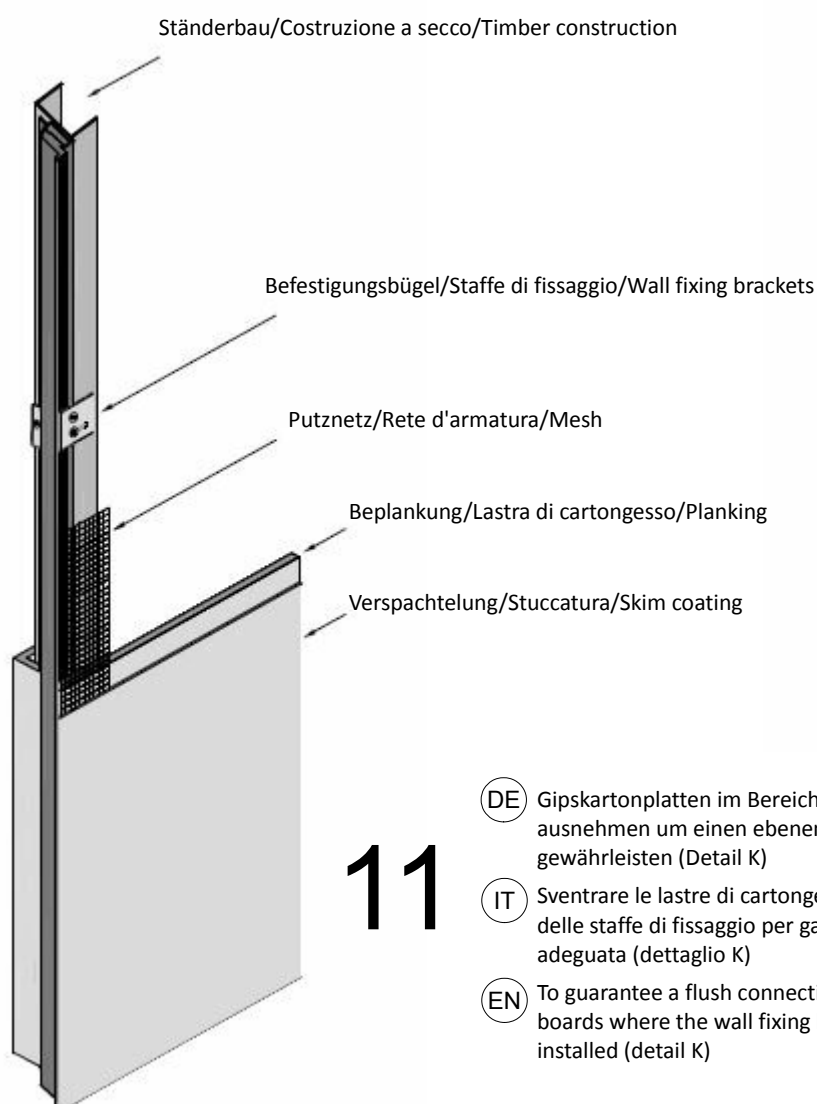


- DE Zargenmontage für stumpf einschlagende Türen
- IT Montaggio telaio per porte a tirare
- EN Frame installation for outswing doors



1-9

- DE Siehe Montage Mauerwerk
- IT Vedi montaggio su strutture massicce
- EN Like installation on solid construction



DE Siehe Seite 5 (Detail I)

IT Vedi pagina 5 (dettaglio I)

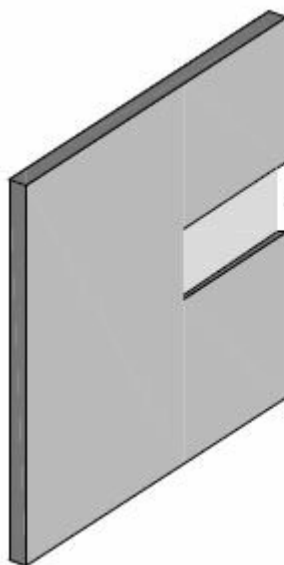
EN Go to page 5 (detail I)

DE Gipskartonplatten im Bereich der Befestigungsbügel ausnehmen um einen ebenen Anschluss zu gewährleisten (Detail K)

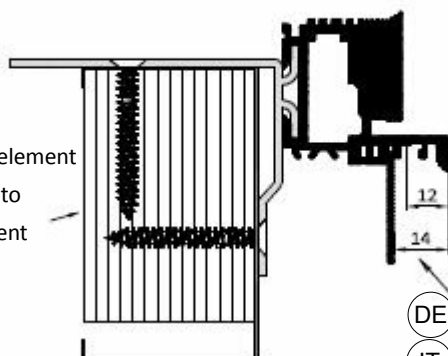
IT Sventrare le lastre di cartongesso sulla posizione delle staffe di fissaggio per garantire una superficie adeguata (dettaglio K)

EN To guarantee a flush connection cut off the gypsum boards where the wall fixing brackets have been installed (detail K)

Detail/Dettaglio K



- (DE) Gipsplatten im Bereich der Befestigungsbügel ausnehmen, z.B. mit einem Gipshobel
- (IT) Sventrare le lastre di cartongesso sulla posizione delle lastra di fissaggio, p.e. usando una pialla
- (EN) Work off the gypsum board where the wall fixing brackets have been installed, f.e. by using a plane

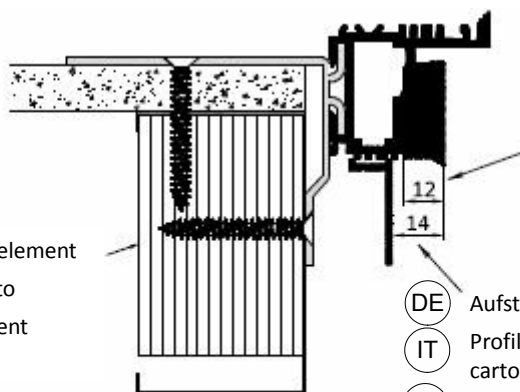


Detail/Dettaglio I

- (DE) Verstärkungselement
- (IT) Rafforzamento
- (EN) Forcing element

- (DE) Aufsteckprofil für 10 mm Gipskartonplatten
- (IT) Profilo aggiuntivo per una lastra di cartongesso di 10 mm
- (EN) Detachable profile for 10 mm gypsum boards

- (DE) Aufsteckprofil für 12,5 mm Gipskartonplatten
- (IT) Profilo aggiuntivo per una lastra di cartongesso di 12,5 mm
- (EN) Detachable profile for 12,5 mm gypsum boards

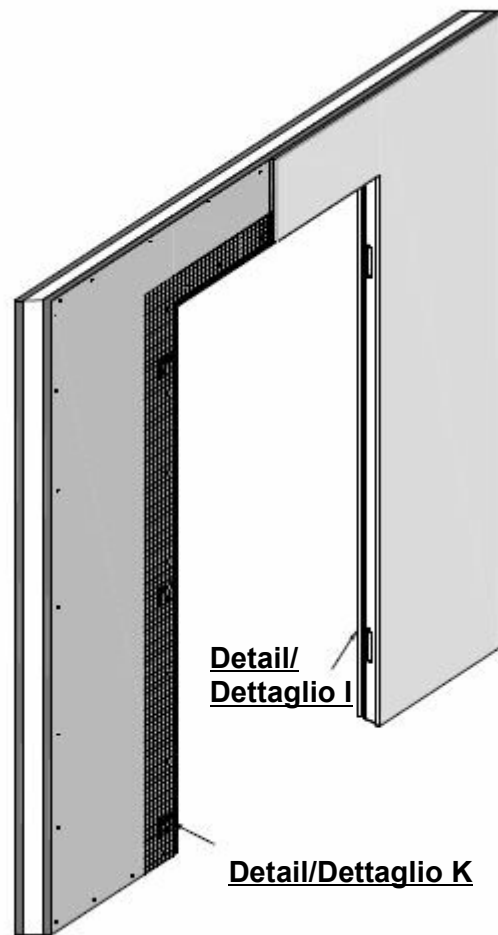
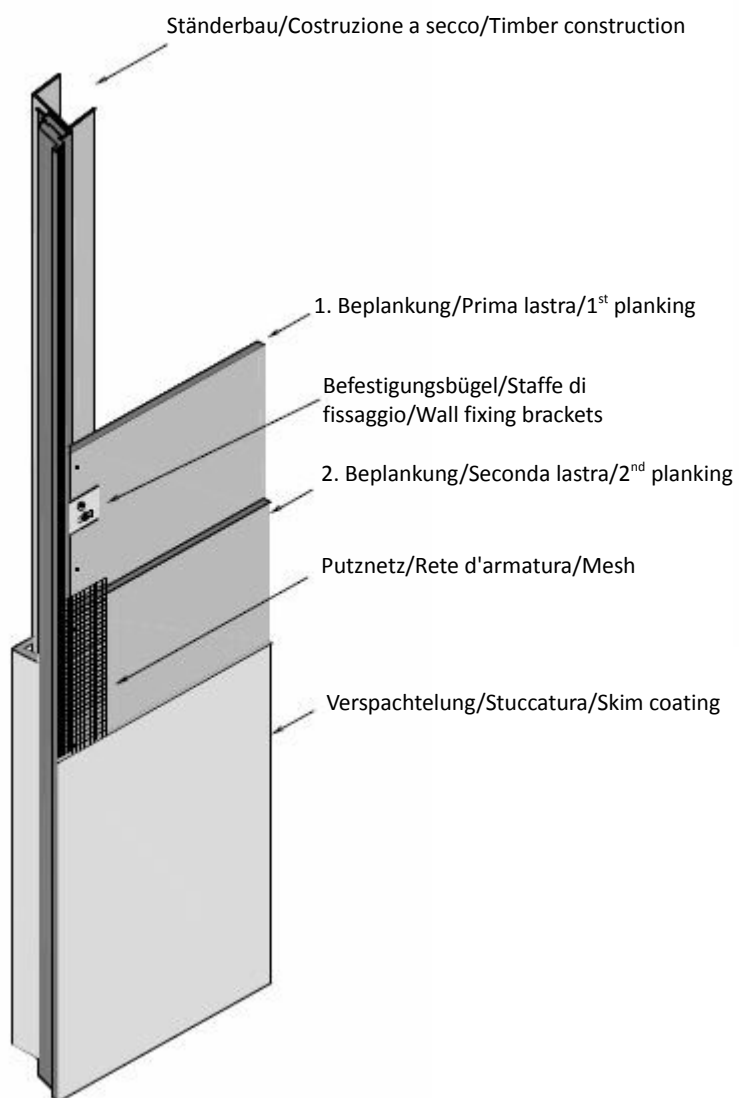


- (DE) Verstärkungselement
- (IT) Rafforzamento
- (EN) Forcing element

Detail I

- (DE) Aufsteckprofil für 10 mm Gipskartonplatten
- (IT) Profilo aggiuntivo per una lastra di cartongesso di 10 mm
- (EN) Detachable profile for 10 mm gypsum boards

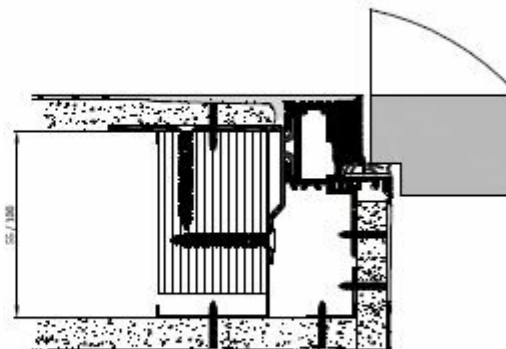
- (DE) Aufsteckprofil für 12,5 mm Gipskartonplatten
- (IT) Profilo aggiuntivo per una lastra di cartongesso di 12,5 mm
- (EN) Detachable profile for 12,5 mm gypsum boards



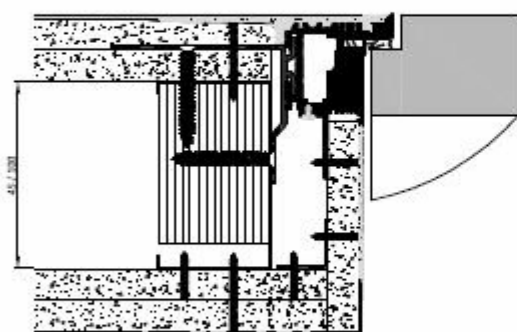
- DE Zarge für in die Leibung öffnende Türen (einfache Beplankung)
IT Montaggio telaio per porte a spingere (singola lastra)
EN Frame installation for inswing doors (single layer)



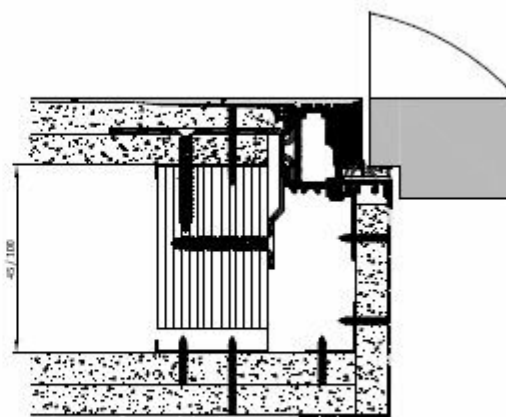
- DE Zarge für stumpf einschlagende Türen (einfache Beplankung)
IT Montaggio telaio per porte a tirare (singola lastra)
EN Frame installation for outswing doors (single layer)

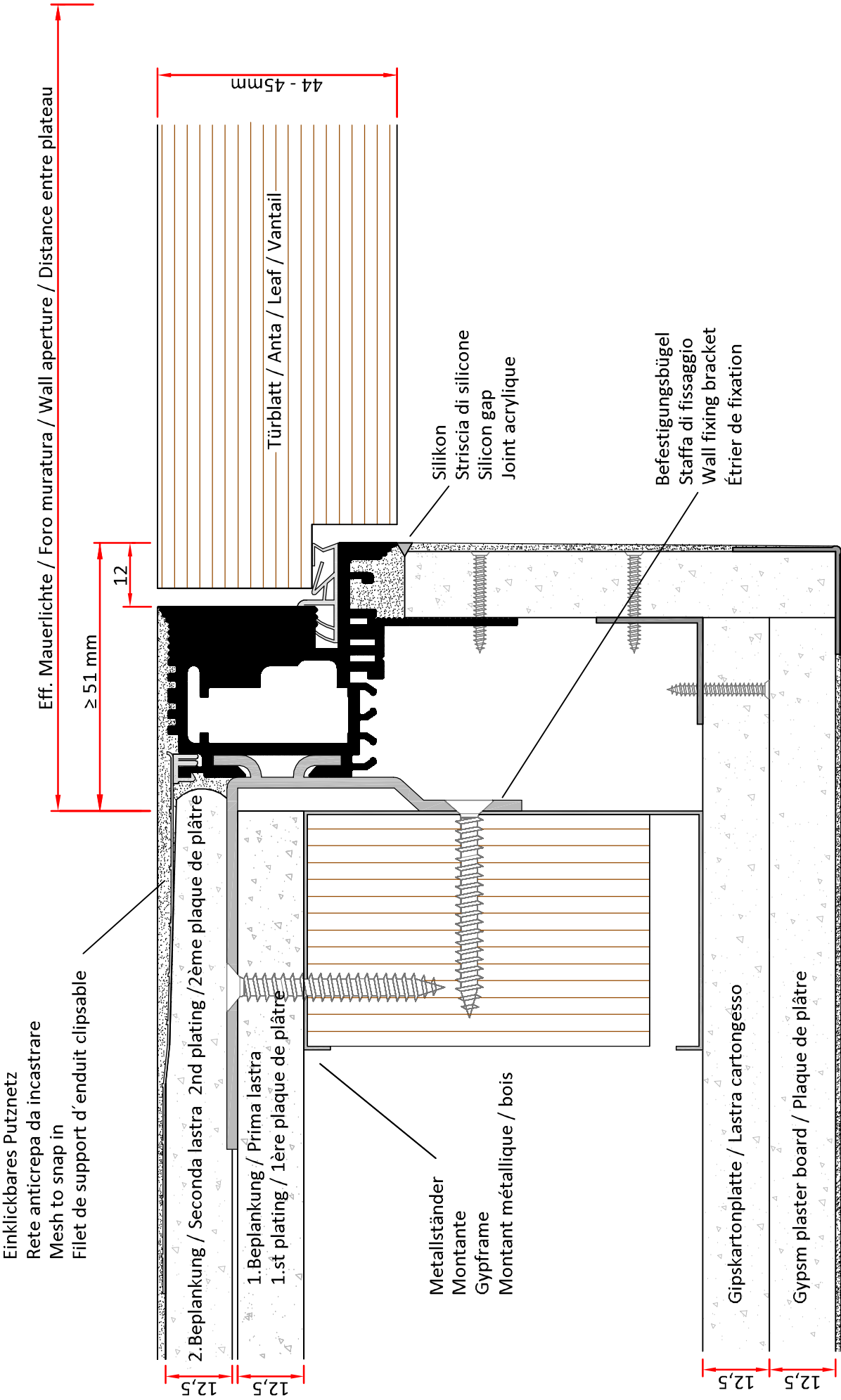


- DE Zarge für in die Leibung öffnende Türen (doppelte Beplankung)
IT Montaggio telaio per porte a spingere (doppia lastra)
EN Frame installation for inswing doors (double layer)



- DE Zarge für stumpf einschlagende Türen (doppelte Beplankung)
IT Montaggio telaio per porte a tirare (doppia lastra)
EN Frame installation for outswing doors (double layer)





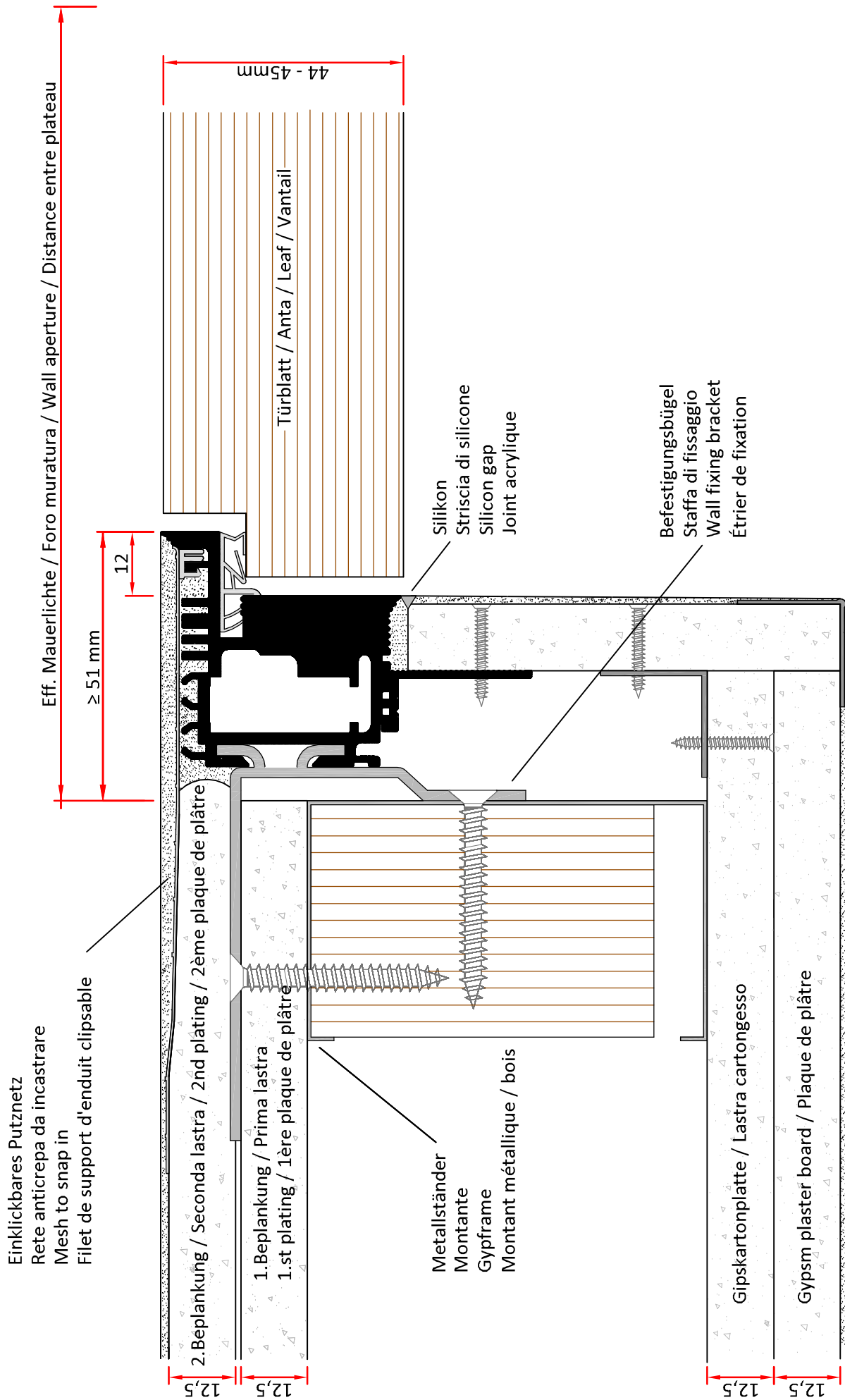
FOR ANY TECHNICAL QUESTIONS PLEASE CONTACT US. WE ARE ABLE TO OFFER CAD FILES FOR APPLICATION DRAWINGS PER ANY RELEVANT WALL ASSEMBLY. THANKYOU!

AGS Systems - Canada. By THEINVISIBLETOOLBOX
PH. 647.5004103 | E. INFO@THEINVISIBLETOOLBOX.CA WWW.THEINVISIBLETOOLBOX.CA
36 ALBERTA AVE. TORONTO ONTARIO. M6H-2R6, CANADA.

This drawing is copyright by AGS-systems and exclusive, protected by law and cannot reproduced without written affirmation

AGS-systems - 39025 Naturno (Italy) Stava 47B
tel. 0039 0473 666376 - info@ags-systems.com

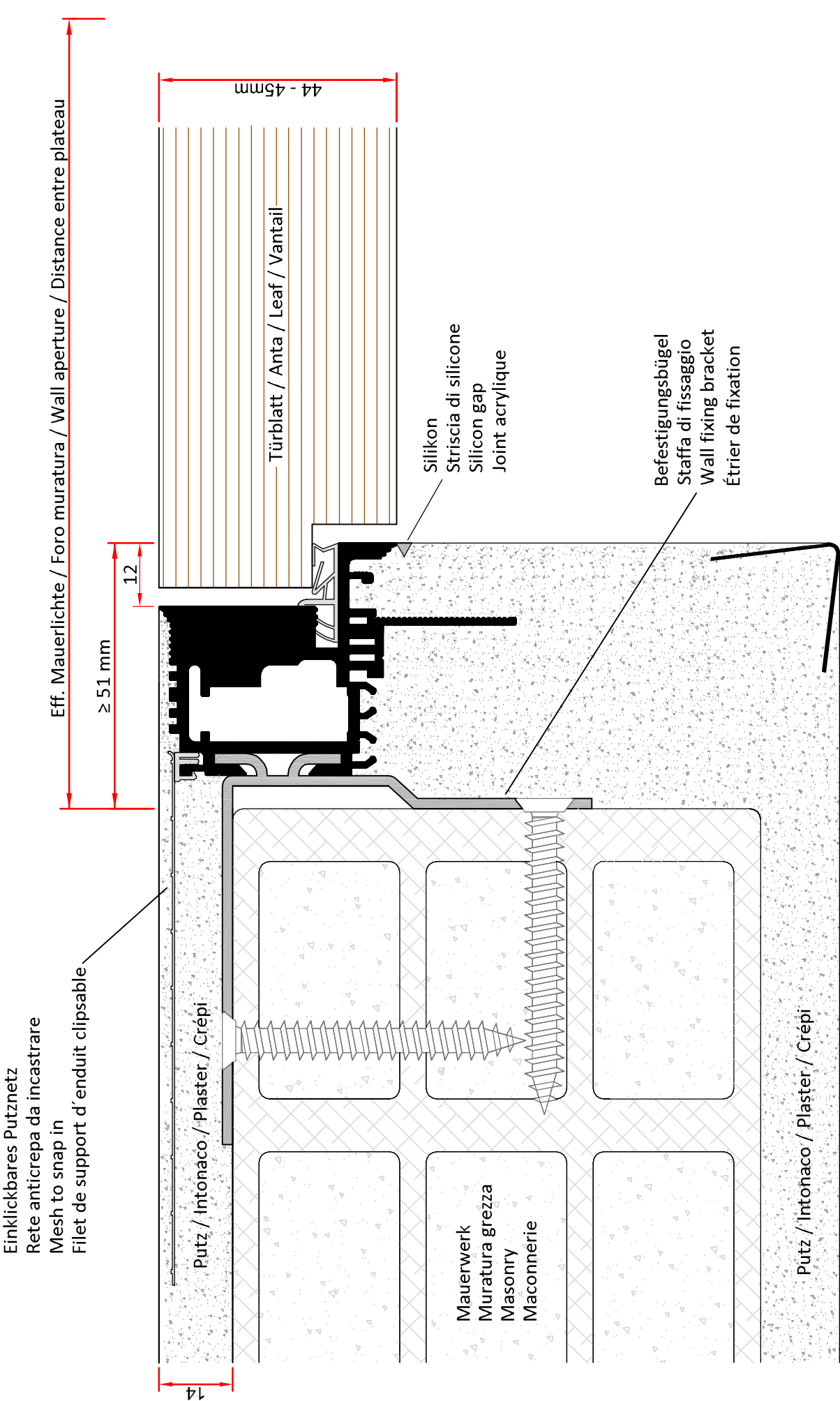
AGS-Systems - 39025 Naturno (Italy)			
Drawing	TST45	Art.nr.	10130
Scala 1:1	Date	09 01 2015	
	Modified		



FOR ANY TECHNICAL QUESTIONS PLEASE CONTACT US. WE ARE ABLE TO OFFER CAD FILES FOR APPLICATION DRAWINGS PER ANY RELEVANT WALL ASSEMBLY. THANKYOU!

AGS Systems - Canada. By THEINVISIBLETOOLBOX
 PH. 647.5004103 | E. INFO@THEINVISIBLETOOLBOX.CA WWW.THEINVISIBLETOOLBOX.CA
 36 ALBERTA AVE. TORONTO ONTARIO. M6H-2R6, CANADA.

AGS-Systems - 39025 Naturno (Italy)			
Drawing	TST45 Art.nr. 10130		
Scala 1:1	Date	09 01 2015	
	Modified		
Written affirmation	AGS-systems - 39025 Naturno (Italy) Stava 47B tel. 0039 0473 666376 - info@ags-systems.com		

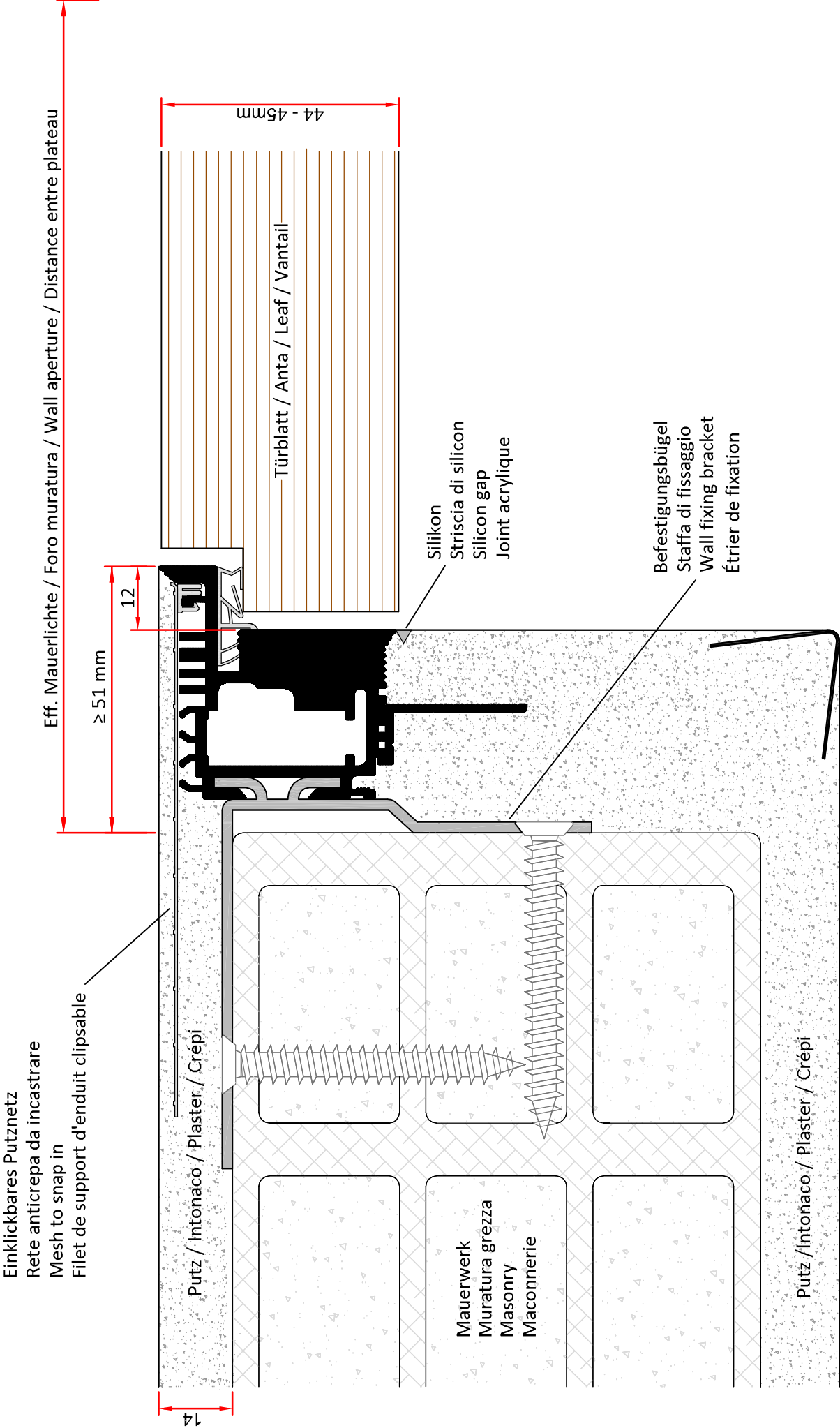


FOR ANY TECHNICAL QUESTIONS PLEASE CONTACT US. WE ARE ABLE TO OFFER CAD FILES FOR APPLICATION DRAWINGS PER ANY RELEVANT WALL ASSEMBLY. THANKYOU!

AGS Systems - Canada. By THEINVISIBLETOOLBOX
PH. 647.5004103 | E. INFO@THEINVISIBLETOOLBOX.CA WWW.THEINVISIBLETOOLBOX.CA
36 ALBERTA AVE. TORONTO ONTARIO. M6H-2R6, CANADA.

AGS-Systems - 39025 Naturno (Italy)			
Drawing	TST45 Art.nr. 10130		
Scala 1:1	Date	09 01 2015	
	Modified		
seen affirmation	AGS-systems - 39025 Naturno (Italy) Stava 47B tel. 0039 0473 666376 - info@ags-systems.com		

This drawing is copyright by AGS-systems and exclusive, protected by law and cannot reproduced without written affirmation



FOR ANY TECHNICAL QUESTIONS PLEASE CONTACT US. WE ARE ABLE TO OFFER CAD FILES FOR APPLICATION DRAWINGS PER ANY RELEVANT WALL ASSEMBLY. THANKYOU!

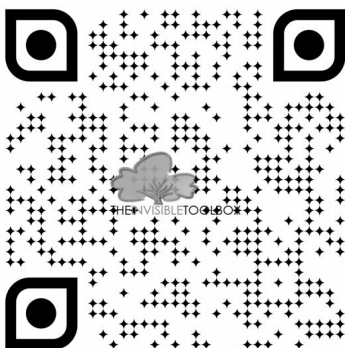
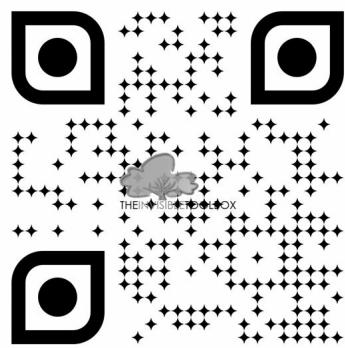
AGS Systems - Canada. By THEINVISIBLETOOLBOX
PH. 647.5004103 | E. INFO@THEINVISIBLETOOLBOX.CA WWW.THEINVISIBLETOOLBOX.CA
36 ALBERTA AVE. TORONTO ONTARIO. M6H-2R6, CANADA.

AGS-Systems - 39025 Naturno (Italy)			
Drawing	TST45 Art.nr. 10130		
Scala 1:1	Date	09 01 2015	
	Modified		
Written affirmation	AGS-systems - 39025 Naturno (Italy) Stava 47B tel. 0039 0473 666376 - info@ags-systems.com		

This drawing is copyright by AGS-systems and exclusive, protected by law and cannot reproduced without written affirmation

Thanks for your interest, and please keep in touch!

THEINVISIBLETOOLBOX.



Frameless
Flush
Shadowgap
Solutions

AGSsystems

By
THEINVISIBLETOOLBOX.ca

SOUND PRINCIPLES FOR MINIMAL CONSTRUCTION
By KOMETSENSE Inc. #36 Alberta Ave, Toronto Ontario. M6H-2R6
WWW.THEINVISIBLETOOLBOX.CA WWW.KOMETSENSE.COM
INFO@THEINVISIBLETOOLBOX.CA Phone: 647.500.4103

