
A guide to Smart Systems Punch Tooling

Operating Instructions and lists of common punch tool heads

Smart Systems **Punch Tools**

June 2007

Smart Systems

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Punch Tooling Overview

ACIP911 Pneumatic Base Unit

The base unit contains a central pneumatic piston which actuates a central Ram. Punch tool heads sit ontop of this base unit. Base part code ACIP911, some heads contain an integral ram and do not require a base unit.



Fig1: ACIP911 Base

Punch Tool Heads

Punch tool heads are specially developed for each system to provide cut-outs for commonly used prep details such as drainage and mechanical corner joints. Refer to the appendix for a listing of common punch tools.

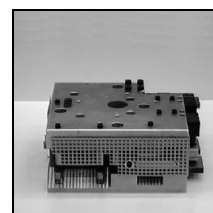


Fig2: ACVG160A Head

Punch Tool Table

Punch tool tables are available to securely mount punch tool bases. ACIP903B single mounting as shown or ACIP904B double mounting for two tools next to each other.

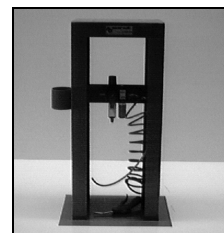


Fig3: ACIP903B Table

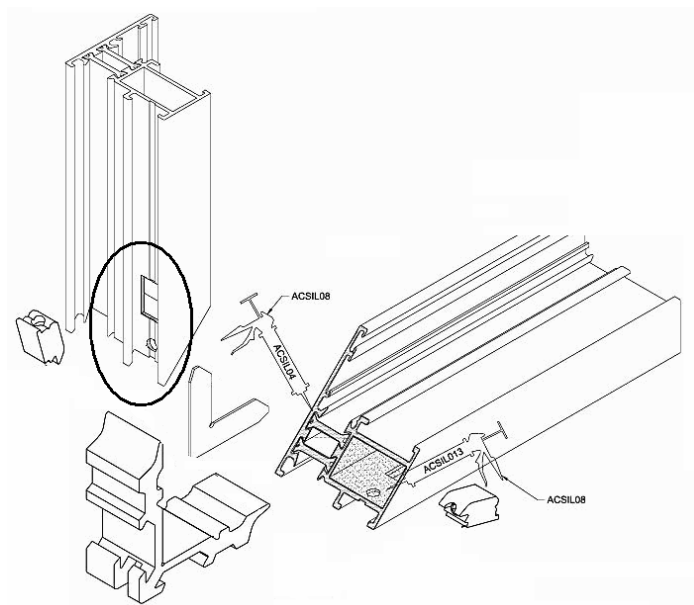


Fig3: IN010 Corner Cleat Prep

Getting Started

1. Installing the base unit

- 1.1 Securely fix the base unit to a standard stand or to a suitable bench using adequate fixings.
- 1.2 Connect the base to a suitable air network which carries oil lubrication and has the facility to regulate the pressure. Use the connectors provided and do not damage or cut the pipe work.
- 1.3 Using the regulator to adjust the pressure to approximately 7 bars.
- 1.4 Once connected, test the tooling is working correctly by pressing down on the button/foot pedal, hold for a couple of seconds and then release.

2. Installing Tooling Heads

- 2.1 Unscrew the central ram from the base unit and ensure that the seat of the base unit is clear of debris.
- 2.2 Carefully lift and place the tooling over the central ram of the base unit.
- 2.3 Replace the screw head and hand tighten, do not over tighten.
- 2.4 Once the head is attached, test the tooling is working correctly by pressing down on the button/foot pedal, hold for a couple of seconds and then release.

Operation Procedures

3. Normal Operation

- 3.1 Ensure that the waste from the previous punch is not jammed within the tooling and that all positions are clear of debris. Clean any debris with air line and/or wire brush.
- 3.2 Only punch one section in a single operation. Insert section into the tool until it reaches the stop actuate the Punch Tool to punch, then remove the section.
- 3.3 Lubricate punches (with recommended lubricant only) every 10 - 15 operations or as necessary

4. Essential Weekly Maintenance

- 4.1 Check air hose connections for any leakages
- 4.2 Ensure fixing bolts have not worked loose and tighten as necessary
- 4.2 Check, bleed and clean water filter cartridge as required
- 4.3 Check lubricator oil level and replenish as necessary

General Notes:

- 1. Do not glue or silicone the sections before using any punch tool
- 2. Do not force or over-tighten screw head to ACIP911 as this may cause damage
- 3. Do not use WD-40 or silicone based lubricants.

Safety Notes:

Always ensure that the air supply is disconnected before performing any cleaning or maintenance that requires reaching into the working parts of the tooling.

Take care when handling tooling – don't lift more than you can safely manage. If in doubt get help before lifting any heavy tooling.

IF IN DOUBT, ASK.

ETC/ECD : Alitherm		
Description	Punch Tooling	Page
Alitherm 55 Window [1+2] Corner ETC110 ETC112 ETC114 ETC119, ETC122,ETC120 ETC125 [3+4] Transom ETC131, ETC135	ACET914 + ACIP911 Base	A1
Alitherm 55 Window (Double Ovolo) [1+2] Corner ETC116 ETC126 [3+4] Transom ETC136	ACET927 + ACIP911 Base	A2
Alitherm 47 Window Windows are crimp only and do not need any punch tooling	N/A	-
Alitherm door [1] Corner ETD010 (and ETC124 Alitherm 55 Window) [2] ETD014, ETD018 [3+4] ETD20	ACET922 + ACIP911 Base	A3
ECC/ECD : Duotherm		
Duotherm Window [1+2] Corner ECC88, ECC105	ACET906 + ACIP911 Base	A4
Duotherm Residential Door [1] Styles ECD44, ECD46, ECD47 [2] Rail ECD45 [3] 55mm Styles ECD50, ECD51	RCT002HSZ + ACIP911 Base	A5
IN : Intruder		
Intruder Windows and Doors [1+2] IN010,IN020,IN021 [3+4] IN017,IN022 [5] IN045 [6] IN030	ACIN912 + ACIP911 Base	A6
Intruder Windows and Doors IN018, IN024, IN122	MA40 No Base needed	A6
VL : Visoline		
Visoline windows and doors [1] Corner Cleat VL1#, VL2#, VL3# [1+2] VL19,VL119 [3] Transom Hole VL10,VL11,VL18,VL30,VL31,VL35,VL36,VL130	ACVL167 + ACIP911 Base	A7
Tilt Turn Handle Preps [1+2,3] Handle+LinkRods VL20,VL21,VL120,VL820,VL821 [4] Drainage Cap Cut-Out	ACIP913 + ACIP911 Base	A8
IP : Imperial		
Imperial Windows and Doors [1] Corner Cleat IP010, IP011, IP012, IP110, IP111, IP112, IP114, IP115 [2] Corner IP020, IP021, IP023, IP030, IP031, IP032 [3] Transom , IP030, IP032, IP035, IP110, IP111, IP112	ACIP912 + ACIP911 Base	A10
Imperial Flag Hinge Door [5] IP024-IP025 Corner Bracket IP624 Pin Holes	ACIP913 + ACIP911 Base	A11
RV : Reversible		
Reversible Windows [1] Corner Cleat RV010 [2] Corner RV021 [3] Drainage RV070 [4] Drainage RV010	ACRV912 + ACIP911 Base	A15

SH : Shopline

Description	Punch Tooling	Page
Shopline [1+2] Top and Side Holes for Top Rail SH120 [2+3] Hinge and Lock SH020 [5] Rails Cut Out SH120, SH027 SH033 SH032 [6] Midrail SH032, SH032, SH034 [7] Hine Adjustment SH020 [8] Bottom Pivot SH027	ACSH912 + ACIP911 Base	A13
Shopline Anti Finger Trap [1] Side Cut Out SH120 [2] Closer yop hole SH020, SH025, SH039 [3] Hinge and Lock SH019, SH020, SH021, SH022, SH025, SSH026, SH037 SH038 SH039 SH040 [4] Hinge Style Cut out for closer SH020, SH025, SH039 [5] Anti Finger Trap Style CH036,SH037	ACSH913 + ACIP911 Base	A14

SC : SC Frame

Description	Punch Tooling	Page
SC Frame SC Frame is square cut - no punch tooling required for SC Frame	N/A	

MC : MC Wall

Description	Punch Tooling	Page
Drainage [1] Drainage DK154 [2] Drainage MC052, MC130, MC131, MC053 [3] Square Joint , MC040, MC045, MC140	MA40	A16
MC Wall [1] Transom Cut Outs MC130, MC131, MC132 [2] Cill cut outs MC014, MC015, MC016, MC017, MC018, MC020, MC024, MC114	KCW3126SS + ACIP911 Base	A17

SL : Slide		
Description	Punch Tooling	Page
Slide [1] Handle Cut Out SL020, SL120, SL220 [2] Rail SL020, SL030, SL031, SL032, SL120 SL220 [3] Embedding SL021 SL033 [4] Connecting Bracket SL021 + SL033 [5] Pulley SL021 [7] Rail SL031 [8] Sealing Member SL031	ACSL153A No Base needed	A18
Slide [1] Corner Cleat SL010, SL013, SL110, SL310 [2] Drainage Face SL010, SL013, SL110, SL310 [3] Drainage Centre SL010, SL013, SL110, SL310	ACSL153B No Base needed	A19
SL+ : Slide Plus		
Description	Punch Tooling	Page
Slide Plus [1+2] Handle SL1020 SL1120 [3] Hasp SL1020 SL1120	ACSL901A No Base Need	A20
Slide Plus [1+2] Handle SL2020 SL2120 [3] Hasp SL2020 SL2120	ACSL901A-1 No Base Need	A20
Slide Plus [1] Rail Passage SL1020 SL1120 [2] T Connection SL1021 + SL1033 [3+4] Rail clearance SL1120 [5] Drainage SL1010 SL050 [6] Square Coupling SL1010	ACSL901B No Base Need	A20
SLc : Slide Cold		
Description	Punch Tooling	Page
Slide Cold [1] Rail Passage SL820, SL8120 [2+3] Rail passage SL830, SL831 [4] Embedding SL821, 833 [5+6] Sealing SL831	ACSL853A No Base Need	A21
Slide Cold [1] Corner Cleat SL81, SL8310 [2] Drainage SL810	ACSL853B No Base Need	A21

Visoglide

Description	Punch Tooling	Page
Visoglide Preps [1+2] Interlock Cut Out VG33 [2] VG30, VG130, VG830 [3+4] VG30, VG31, VG33, VG130, VG830, VG131 [5] Transom VG22 [6] Corner VG20, VG120, VG820 [7] Corner VG10, VG13, VG110, VG810	ACVG160A + ACIP911 Base	A22
Visoglide Drainage [1+4] Drainage VG10, VG13, VG110 [2+3] Drainage VG10, VG13, VG110	ACVG160B + ACIP911 Base	A23
Visoglide Deep Sections [1+2] VG210, VG310	ACVL167 + ACIP911 Base	A23

Superglide

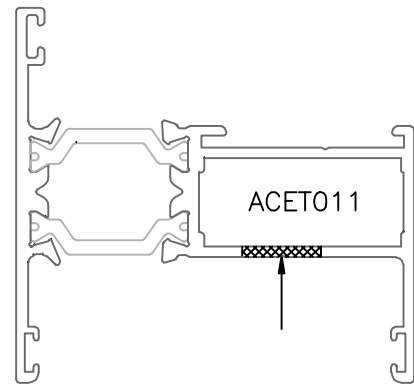
Description	Punch Tooling	Page
Superglide Preps [1+2] Rail passage SG030, SG031, SG033 [3] Leg Removal SG030 [4] Corner Cleat SG010, SG013, SG210 [5] Corner Cleat SG020	ACSG160A + ACIP911 Base	A24
Superglide Drainage [1+2] Drainage SG010, SG013, SG210	ACSG160B + ACIP911 Base	A24

Alitherm 55 Window Punch Tooling

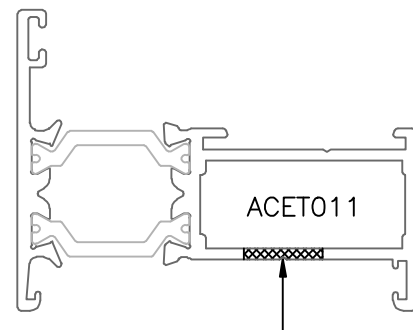


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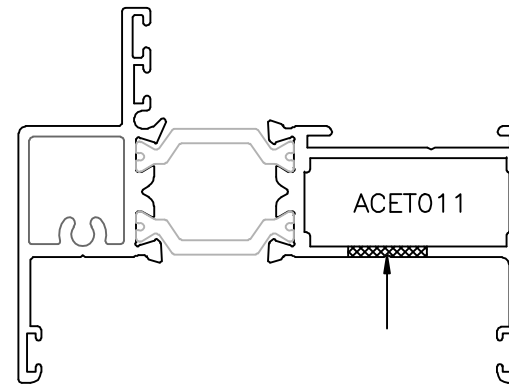
ETC110



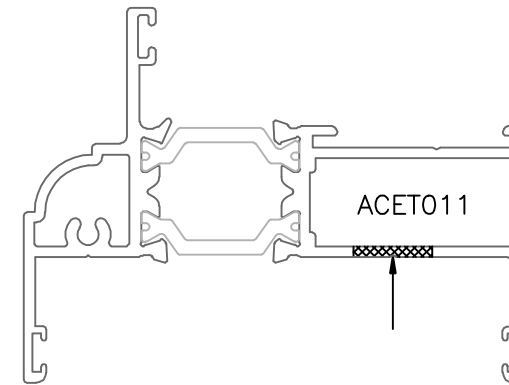
ETC112



ETC114



ETC119

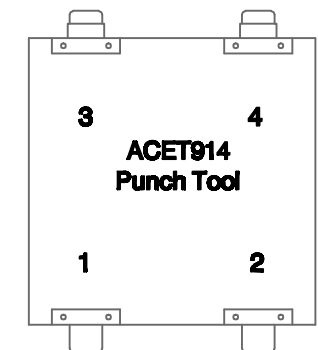


PT: ACET914 Positions: 1 & 2
 Corner Cleat

ACET914 Punch Tool

Positions 1 & 2: Corner cleat for ETC110, 112, 114, 119, 120, 122 & 125

Positions 3 & 4: Transom cut-out ETC131 & 135

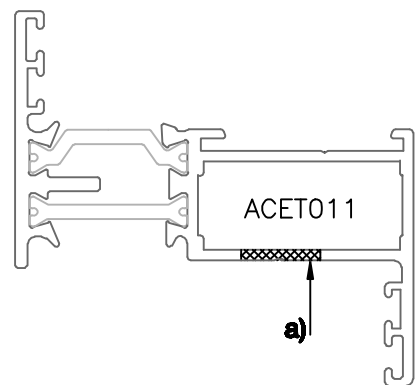


ACET922 Punch Tool

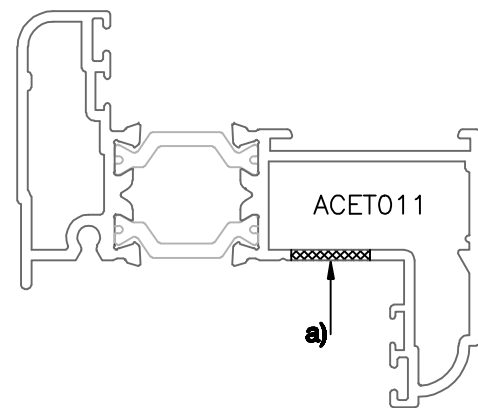
Position 1: Corner cleat for ETC124

VENT

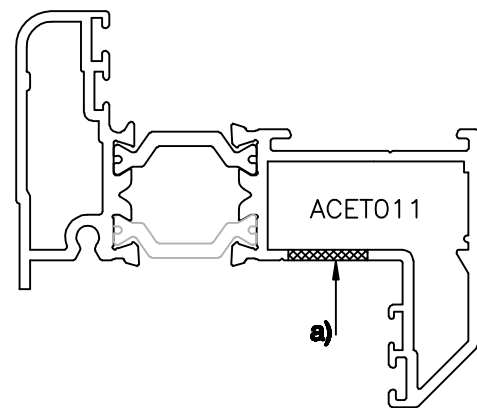
ETC122



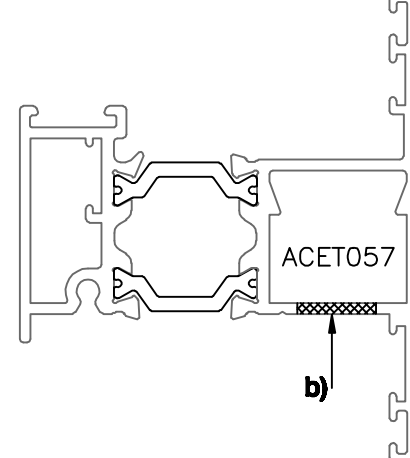
ETC120



ETC125



ETC124

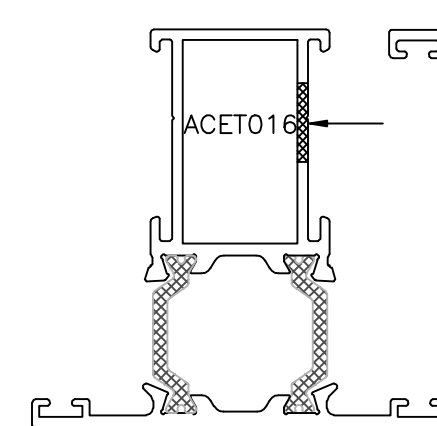


a) PT: ACET914 Positions: 1 & 2
 Corner Cleat

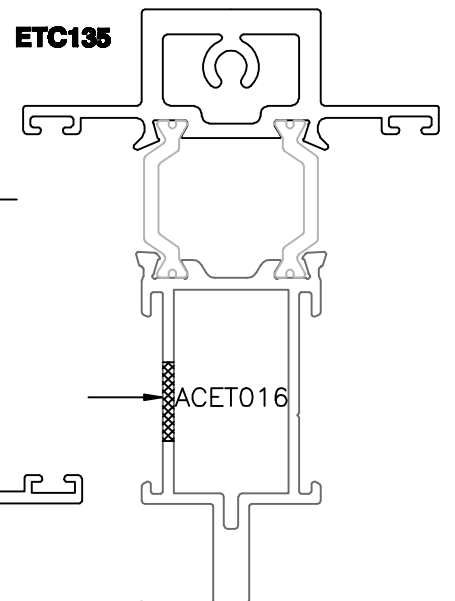
b) PT: ACET922 Position: 1
 Corner Cleat

TRANSOM

ETC131



ETC135

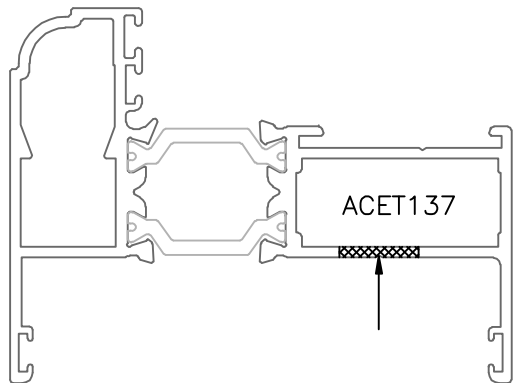


PT: ACET914 Positions: 3 & 4
 Transom Prep

Alitherm 55 New Window Punch Tooling

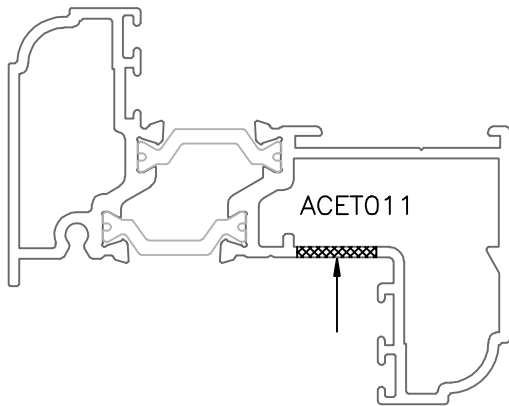


**OUTERFRAME
ETC116**



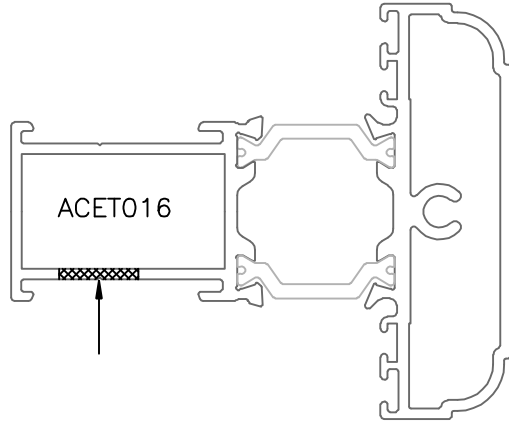
PT: ACET927 Positions: 1 & 2
Corner Cleat

**VENT
ETC126**



PT: ACET927 Positions: 1 & 2
Corner Cleat

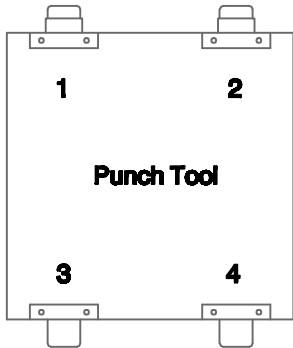
**TRANSOM
ETC136**



PT: ACET927 Positions: 3 & 4
Transom Cut-out

ACET927 Punch Tool

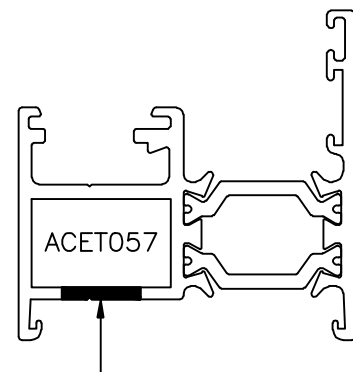
Positions 1 & 2: Corner cleat for ETC116 & 126
Positions 3 & 4: Transom cut-out ETC136



Alitherm 47 Door Punch Tooling

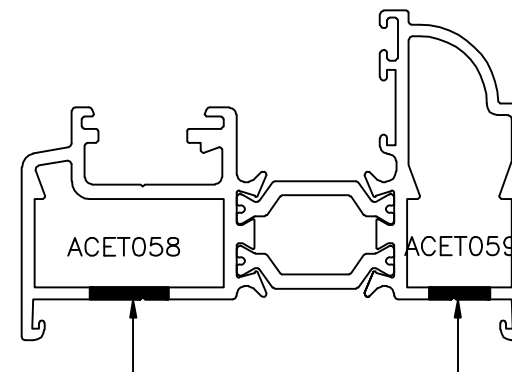


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ETD010



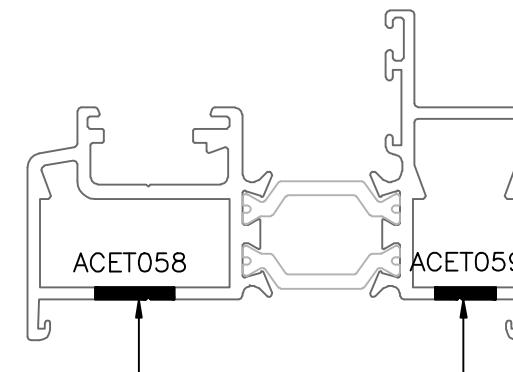
PT: ACET922 Position: 1
Corner Cleat

ETD014



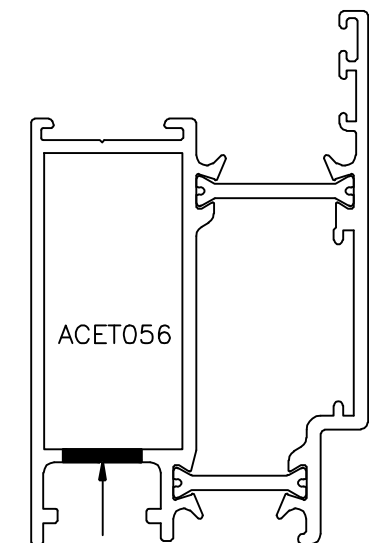
PT: ACET922 Position: 2
Corner Cleat

ETD018



PT: ACET922 Position: 2
Corner Cleat

VENT
ETD020



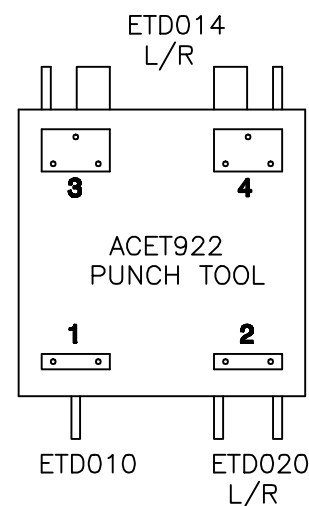
PT: ACET922 Positions: 3 & 4
Corner Cleat

ACET922 Punch Tool

Position 1: Corner cleat for ETD010

Position 2: Corner cleat for ETD020

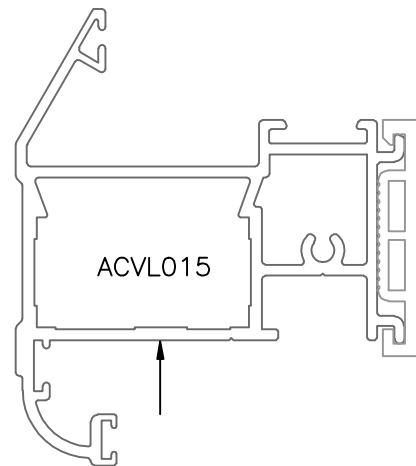
Position 3 & 4: Corner cleat for ETD014



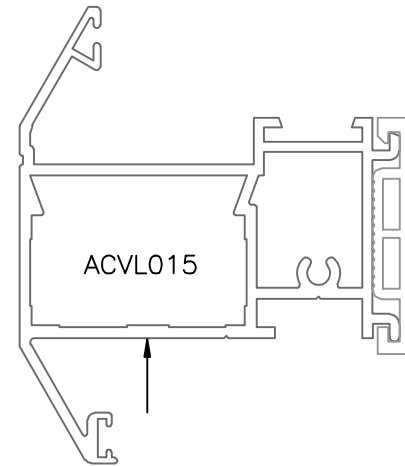
Duotherm Window Punch Tooling



**Vent
ECC88**



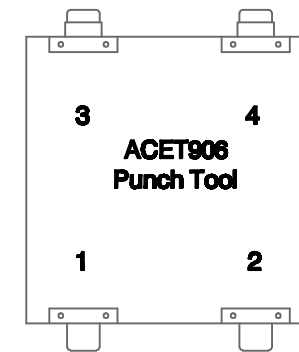
ECC105



PT: ACET906 Positions: 1 & 2
Corner Cleat

ACET906 Punch Tool

Positions 1 & 2: Corner cleat for ECC88N & 105

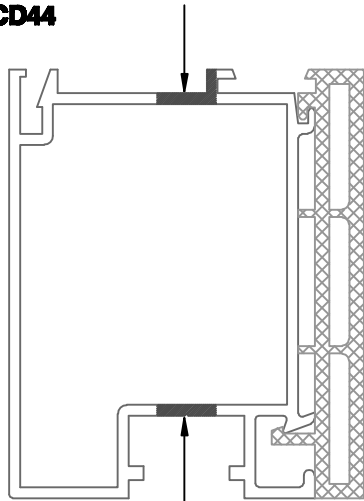


Duotherm Door Punch Tooling



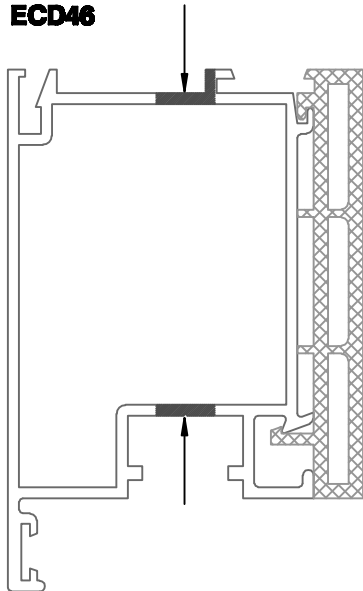
STILES

ECD44



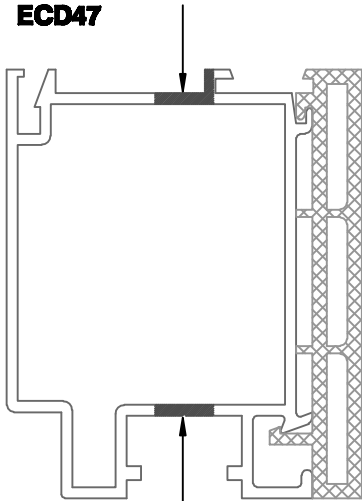
PT: RCT002HSZ Position: 1
Hole Punch

ECD46



PT: RCT002HSZ Position: 1
Hole Punch

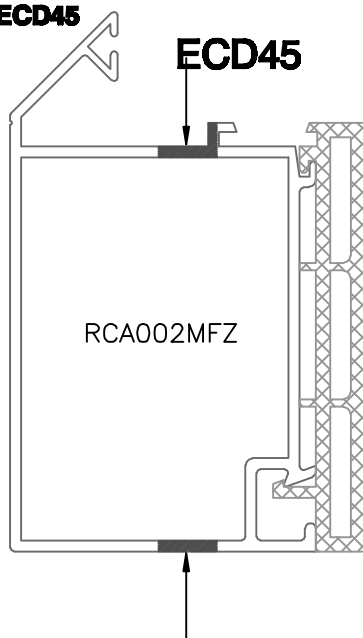
ECD47



PT: RCT002HSZ Position: 1
Hole Punch

RAIL

ECD45



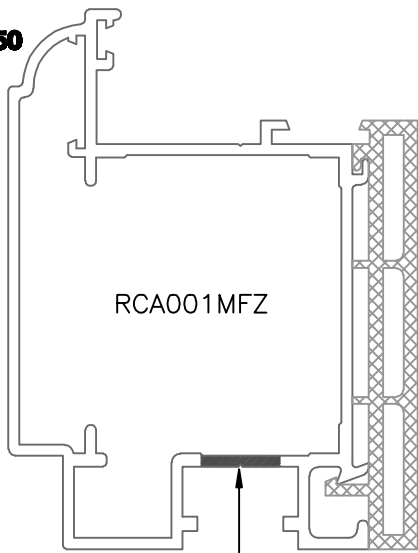
PT: RCT002HSZ Position: 2
Hole Punch

RCT002HSZ Punch Tool

- Position 1: Stile hole punch for ECD44, 46 & 47
- Position 2: Rail hole punch for ECD45
- Position 3: Corner cleat punch for ECD50 & ECD51

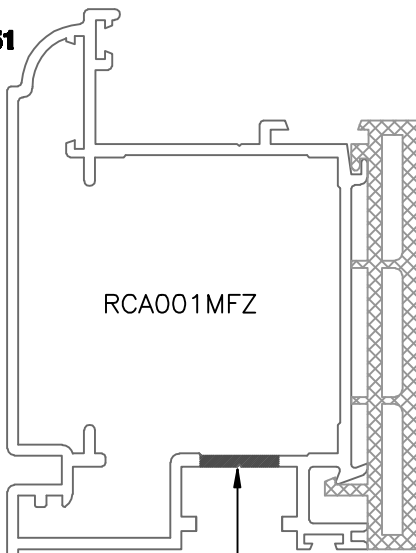
55mm STILES

ECD50



PT: RCT002HSZ Position: 3
Hole Punch

ECD51



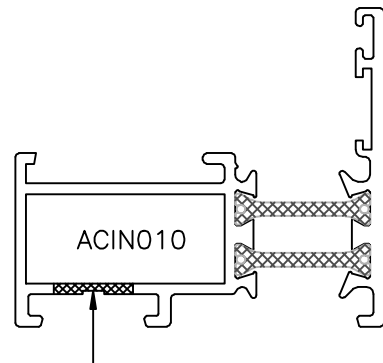
PT: RCT002HSZ Position: 3
Hole Punch

Intruder Window Punch Tooling



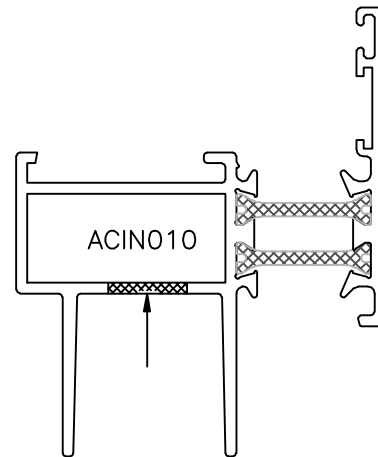
OUTERFRAME

IN010
Outer Frame



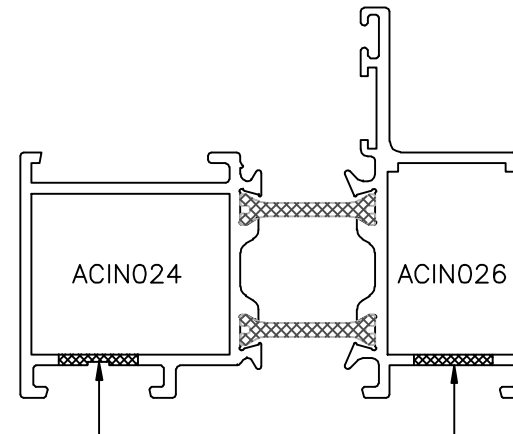
PT: ACIN912
Positions: 1 & 2
Corner Cleat

IN017
Outer Frame



PT: ACIN912
Positions: 3 & 4
Corner Cleat

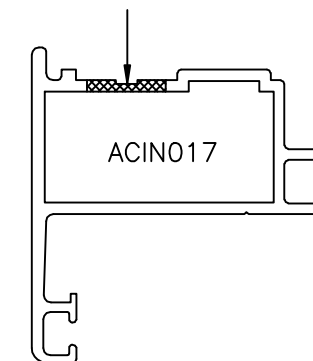
IN018
Outer Frame



PT: MA40
Position: Eurogrove
Corner Cleat

REVERSE ADAPTER

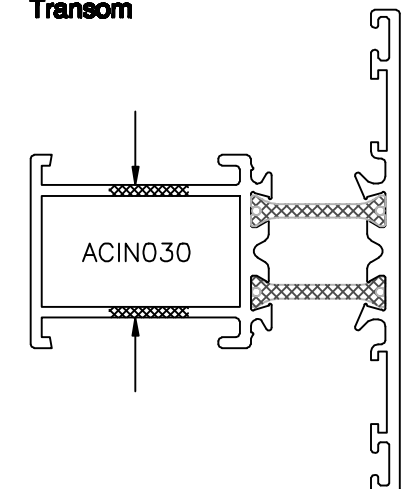
IN045
Reverse Profile



PT: ACIN912
Position: 5
Corner Cleat

TRANSOM

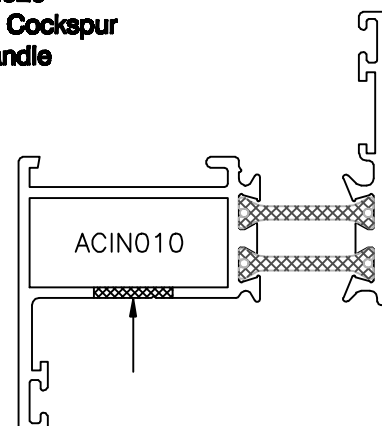
IN030
Transom



PT: ACIN912
Position: 5
Hole Punch

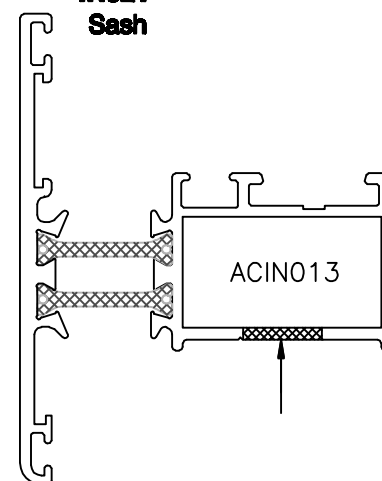
WINDOW VENT

IN020
Sash for Cockspur
Handle



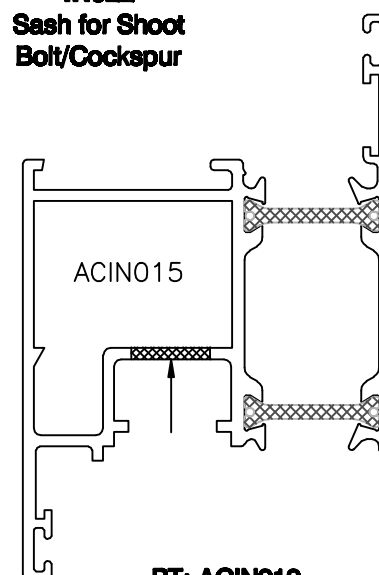
PT: ACIN912
Positions: 1 & 2
Corner Cleat

IN021
Sash



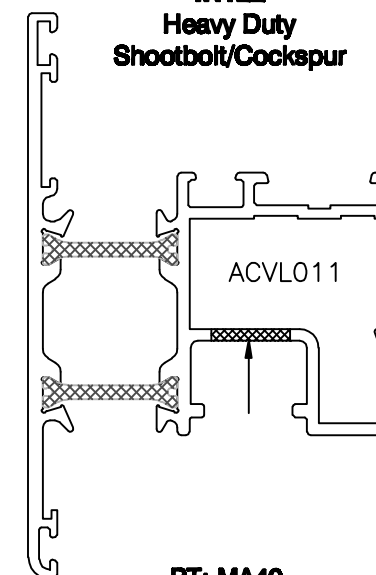
PT: ACIN912
Positions: 1 & 2
Corner Cleat

IN022
Sash for Shoot
Bolt/Cockspur



PT: ACIN912
Positions: 3 & 4
Corner Cleat

IN122
Heavy Duty
Shootbolt/Cockspur



PT: MA40
Position: Eurogrove
Corner Cleat

ACIN912 Punch Tool

Position 1 & 2: Corner cleat for IN010, IN020 & IN021

Position 3 & 4: Corner cleat for IN017 & IN022

Position 5: 'T' bracket for IN030 & Corner cleat for IN045

MA40 Punch Tool

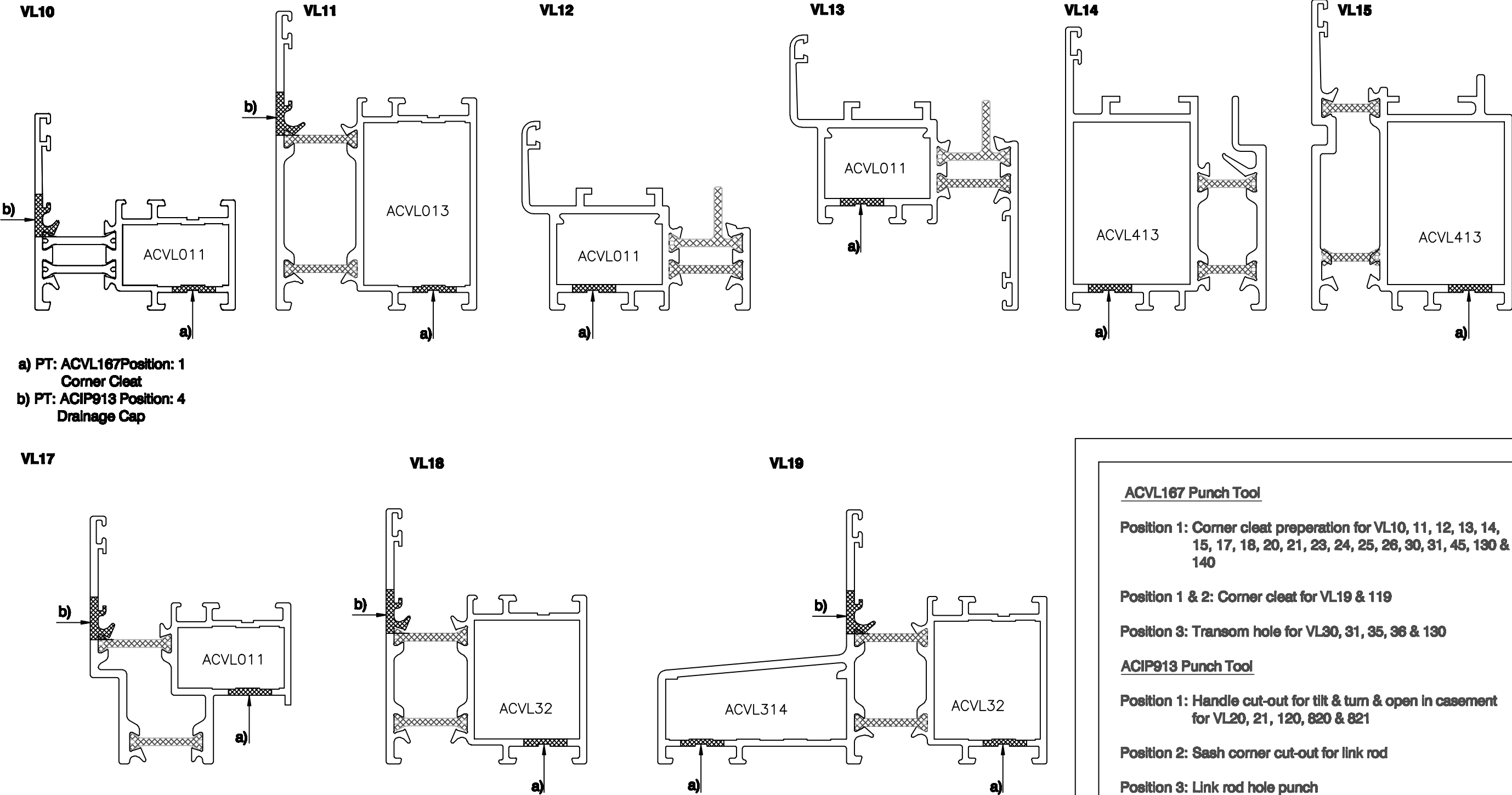
Eurogroove position: Corner cleat for IN018 & IN122



Visoline Punch Tooling

Page 1 of 3

OUTER FRAME



ACVL167 Punch Tool

Position 1: Corner cleat preparation for VL10, 11, 12, 13, 14, 15, 17, 18, 20, 21, 23, 24, 25, 26, 30, 31, 45, 130 & 140

Position 1 & 2: Corner cleat for VL19 & 119

Position 3: Transom hole for VL30, 31, 35, 36 & 130

ACIP913 Punch Tool

Position 1: Handle cut-out for tilt & turn & open in casement for VL20, 21, 120, 820 & 821

Position 2: Sash corner cut-out for link rod

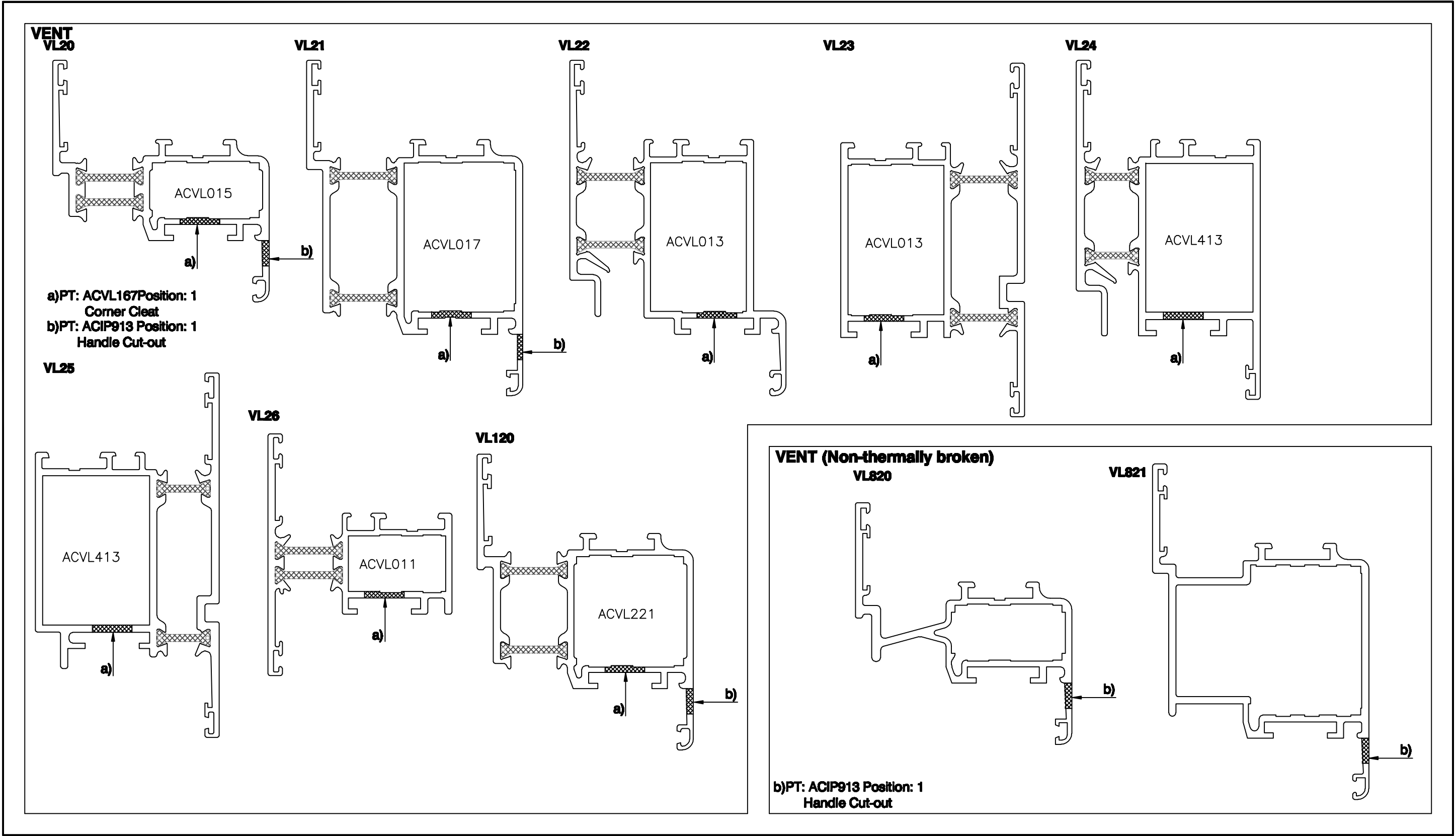
Position 3: Link rod hole punch

Position 4: Drainage cap cut-out for VL10, 11, 17, 18 & 19



Visoline Punch Tooling

Page 2 of 3



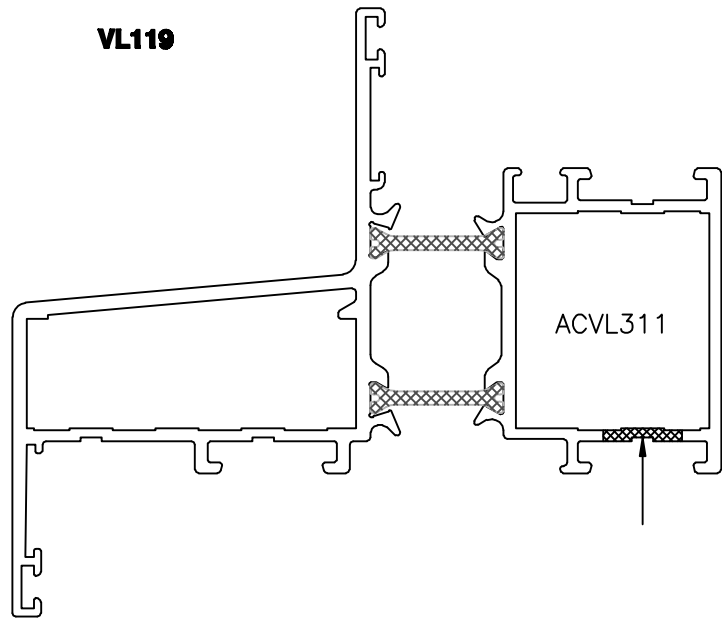


Visoline Punch Tooling

Page 3 of 3

OUTER FRAME WITH CILL

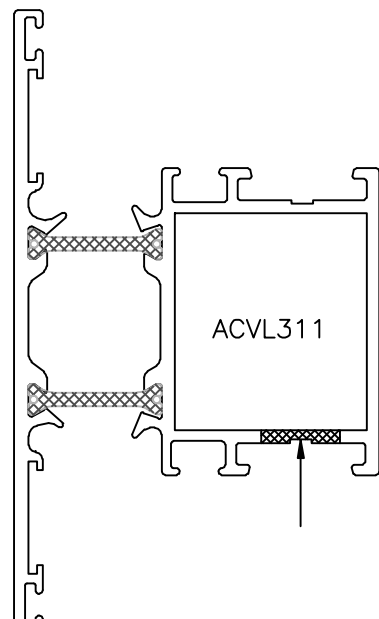
VL119



PT: ACVL167Positions: 1 & 2
Corner Cleat

LARGE TRANSOM

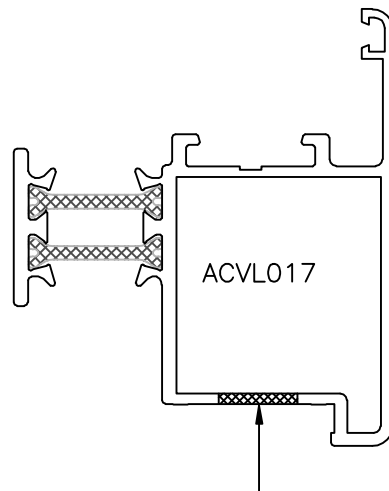
VL130



PT: ACVL167Position: 1
Corner Cleat

REVERSING PROFILE

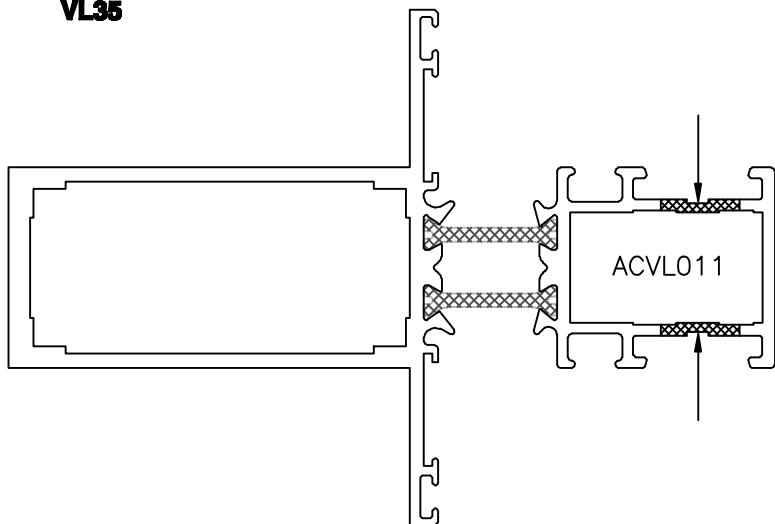
VL45



PT: ACVL167Position: 1
Corner Cleat

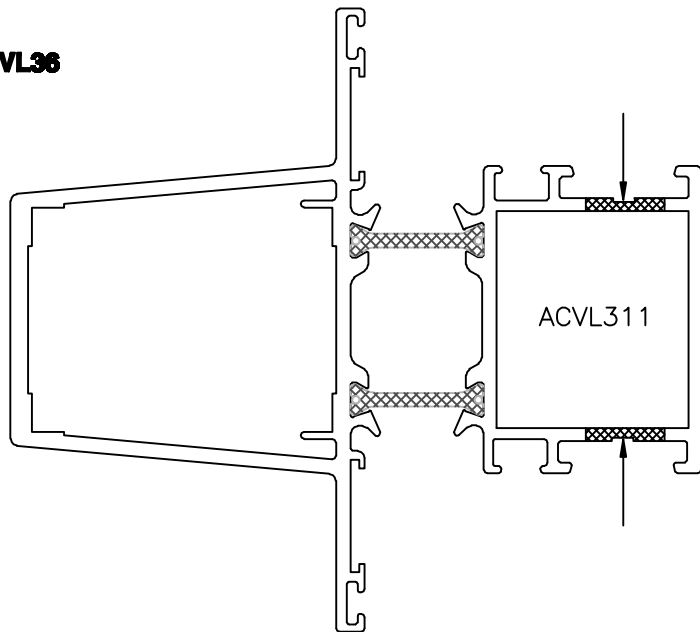
REINFORCED TRANSOM/MULLION

VL35



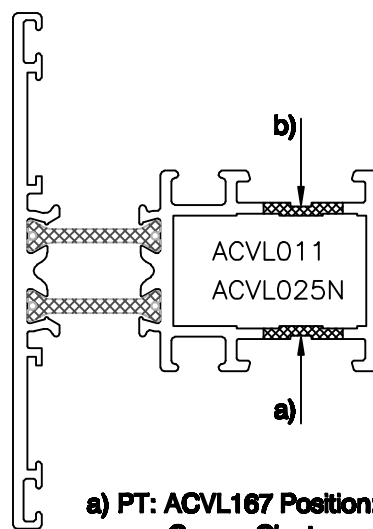
PT: ACVL167Position: 3
Transom/Mullion Hole

VL36



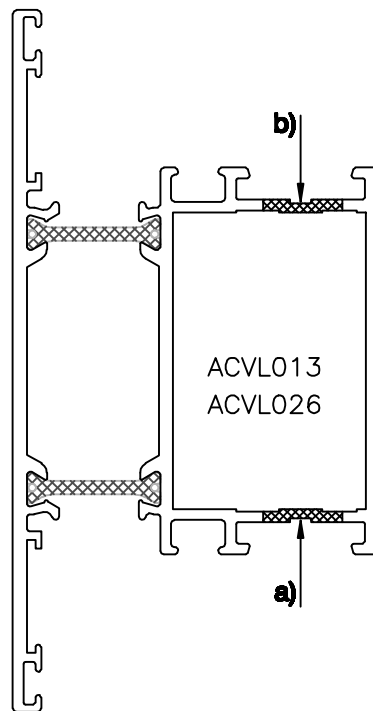
TRANSOM/MULLION

VL30



a) PT: ACVL167 Position: 1
Corner Cleat
b) PT: ACVL167Positions: 3
Transom/Mullion Hole

VL31

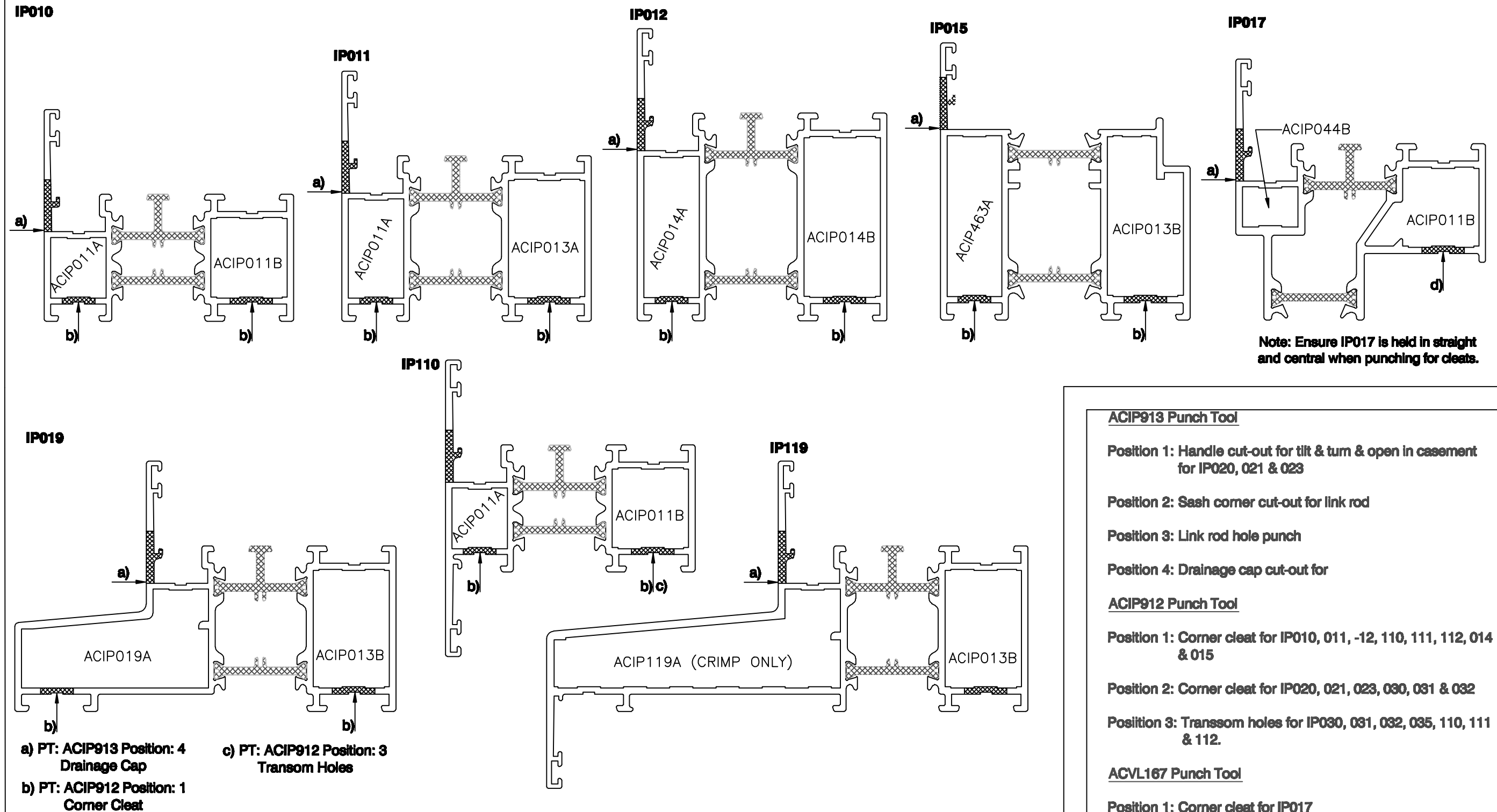


Imperial Punch Tooling

Page 1 of 3

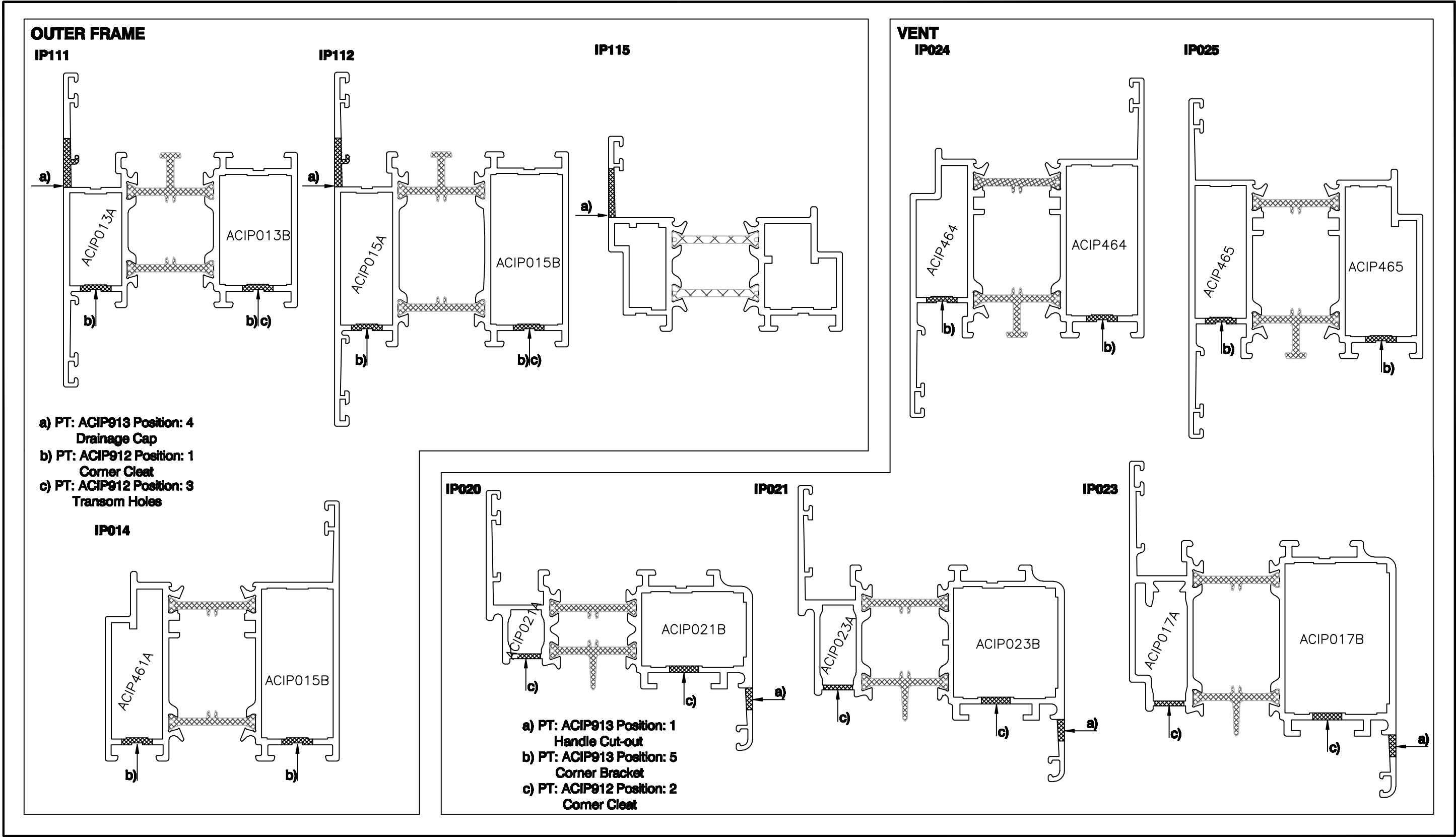


OUTER FRAME



Imperial Punch Tooling

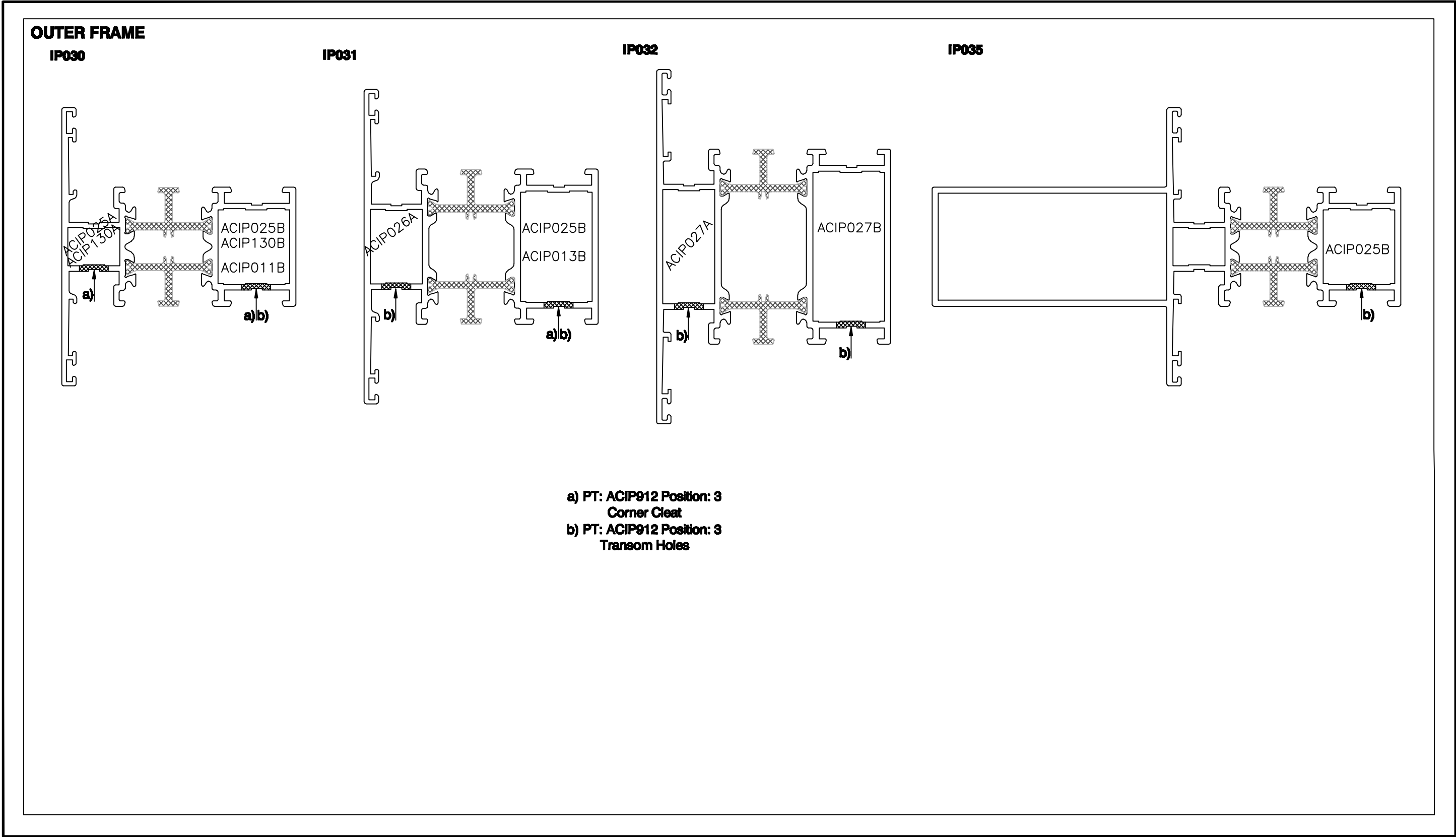
Page 2 of 3





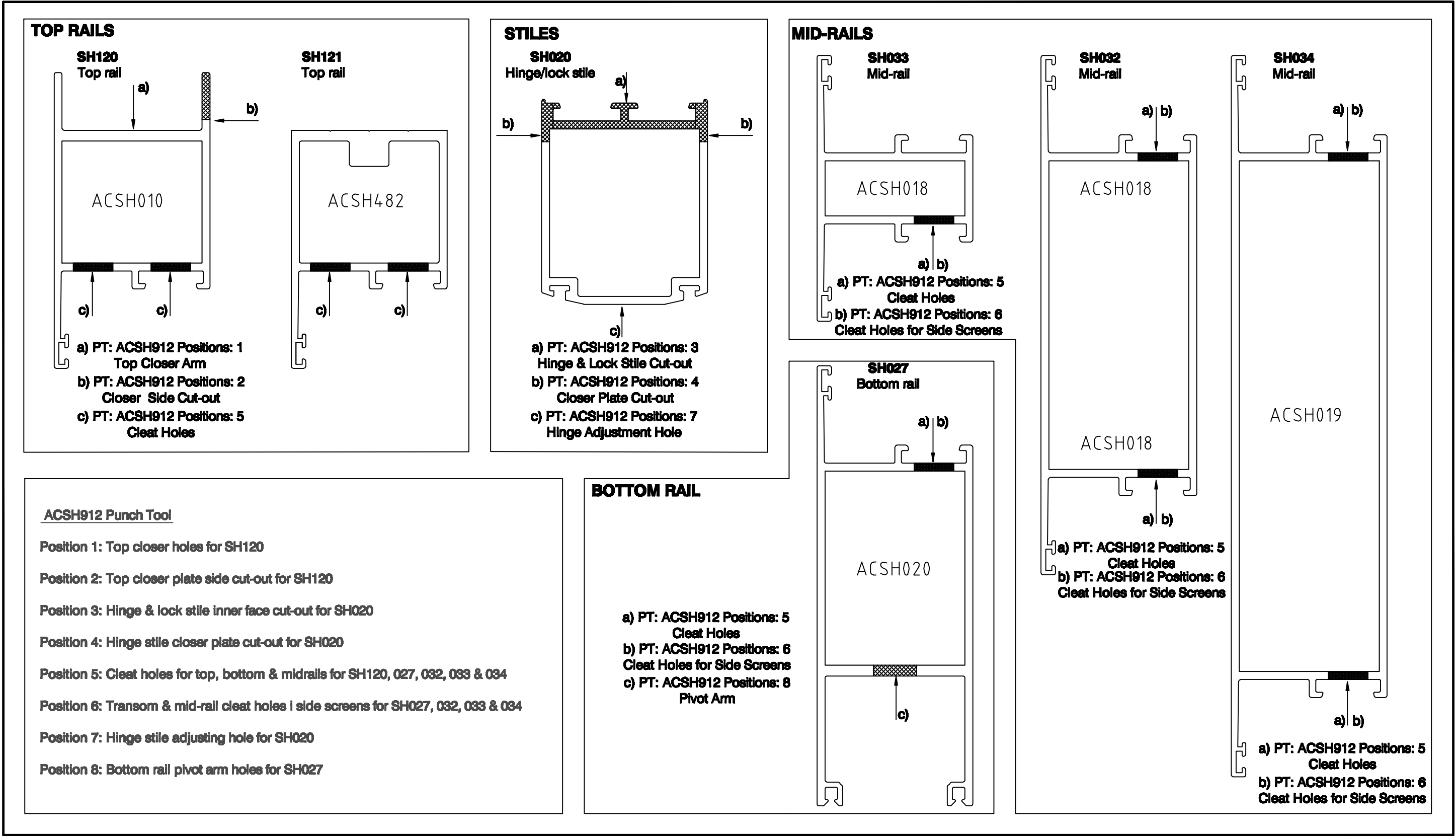
Imperial Punch Tooling

Page 3 of 3

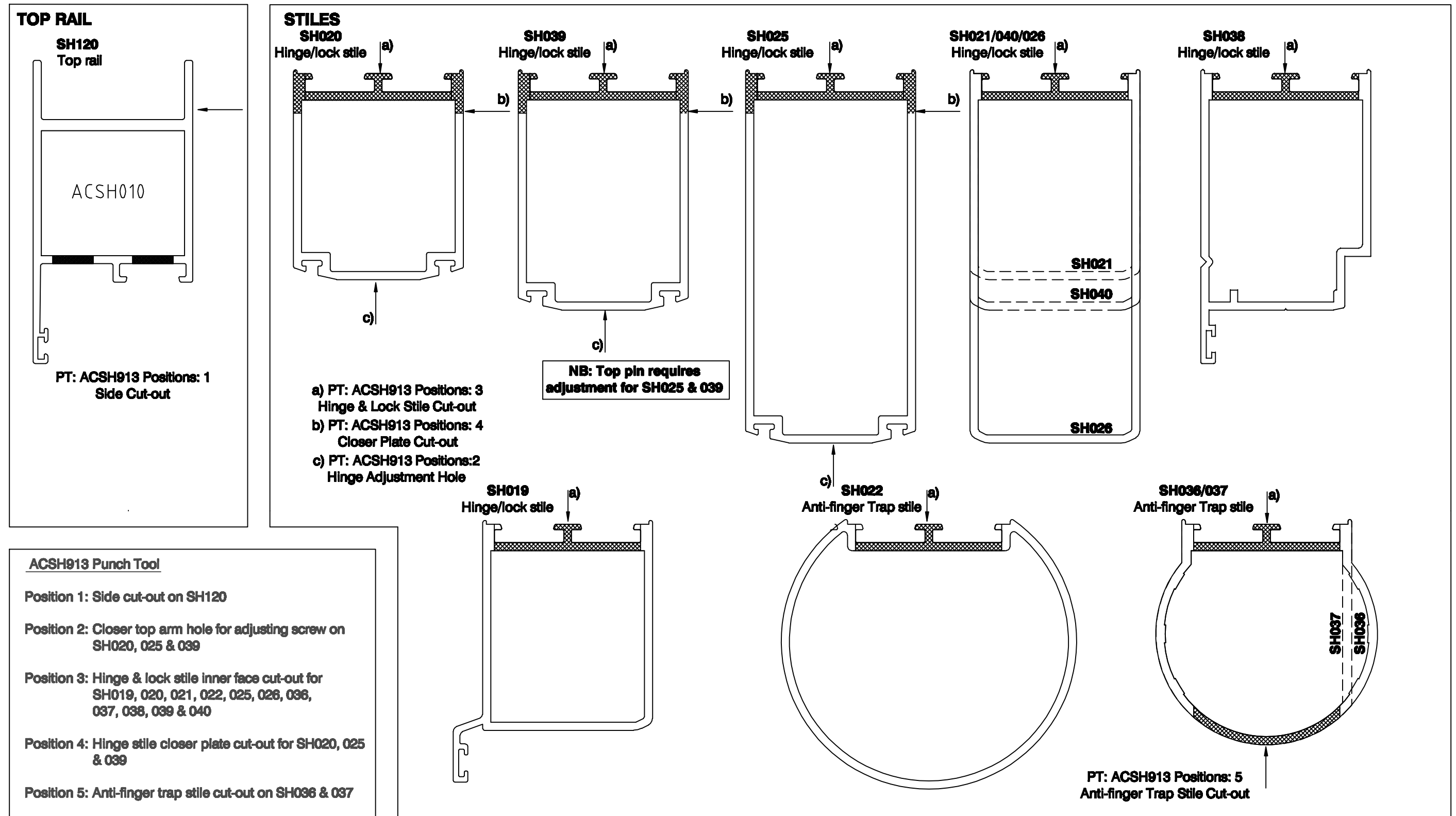




Shopline Punch Tooling



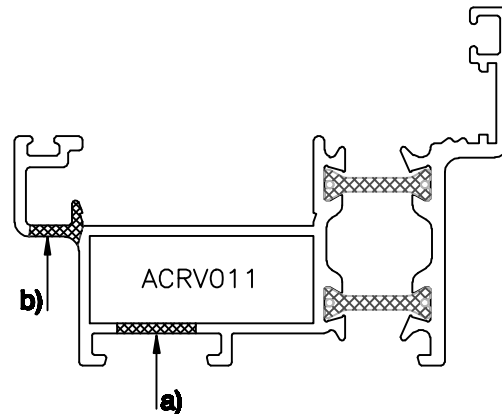
Shopline AFT Punch Tooling



Reversible Window Punch Tooling

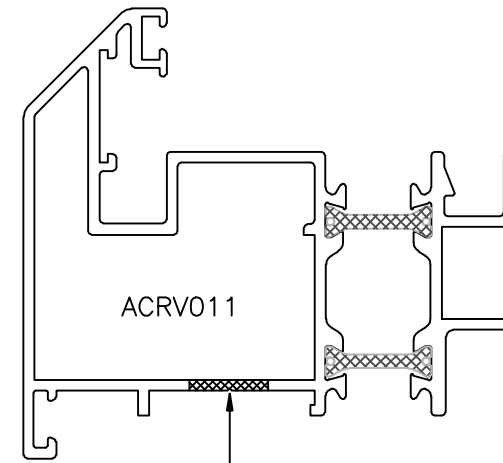


OUTERFRAME RV010



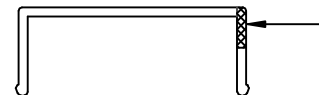
- a) PT: ACRV912
 Position: 1 Corner Cleat
 b) PT: ACRV912
 Position: 2 Drainage

WINDOW VENT RV021



- PT: ACRV912
 Position: 2 Corner Cleat

REVERSE ADAPTER RV070



- PT: ACRV912
 Position: 3 Drainage Slot

ACRV912 Punch Tool

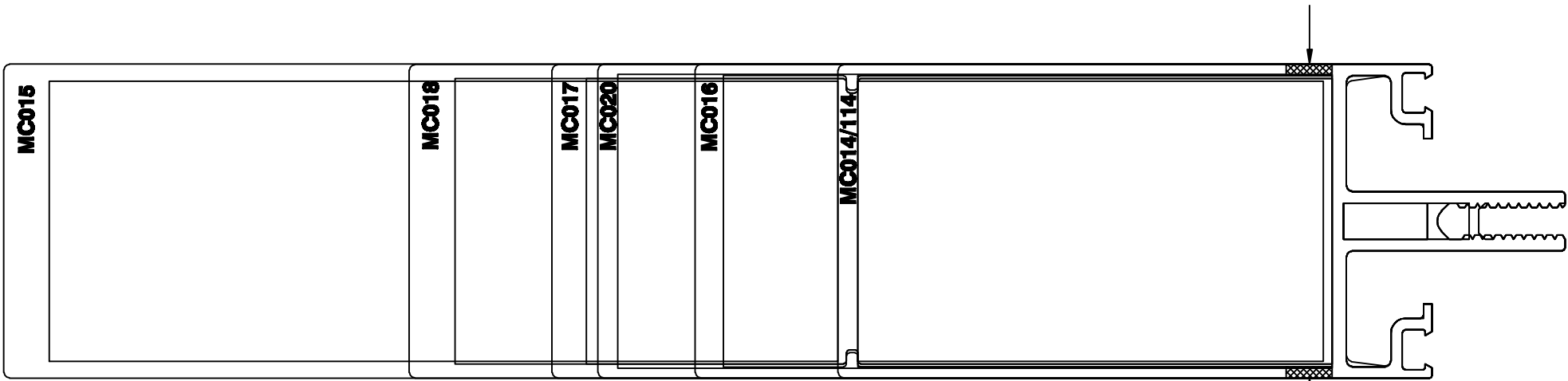
- Position 1: Corner cleat for RV010
 Position 2: Corner cleat for RV021
 Position 3: Drainage cut-out for RV070
 Position 4: Drainage slot for RV010

MC Wall Punch Tooling

Page 1 of 2



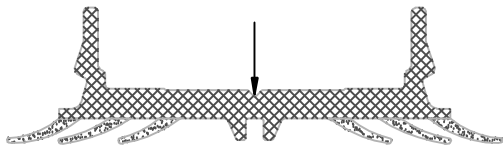
MULLIONS



PT: KCW3126SS Positions: 1
Corner Cleat

NB: Mullions larger than MC014 require notching around cill before punch out

PRESSURE PLATE



PT: MA40 Positions: 1
Slot Punch

MA40 Punch Tool

- Position 1: Slot punch for DK154
- Position 2: Drainage for MC052, 130, 131, 132 & 053 after adjustment
- Position 3: Square coupling joint MC040, 040B, 045 & 140

KCW3126SS Punch Tool

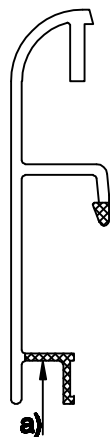
- Position 1: 19mm transom cut-out for MC130, 131 & 132
- Position 2: Cut-out to join to cill for MC014, 015, 016, 017, 018, 020, 024 & 114

MC Wall Punch Tooling

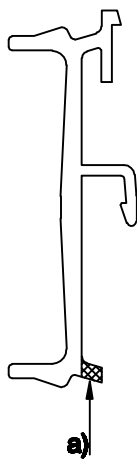
Page 2 of 2

TRANSOMS

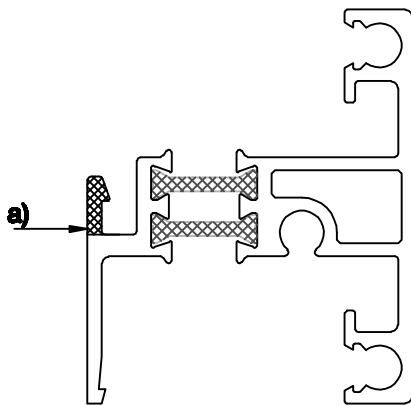
MC052



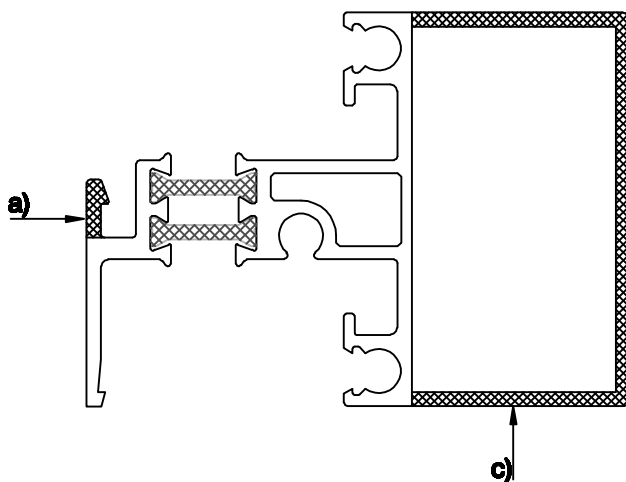
MC053



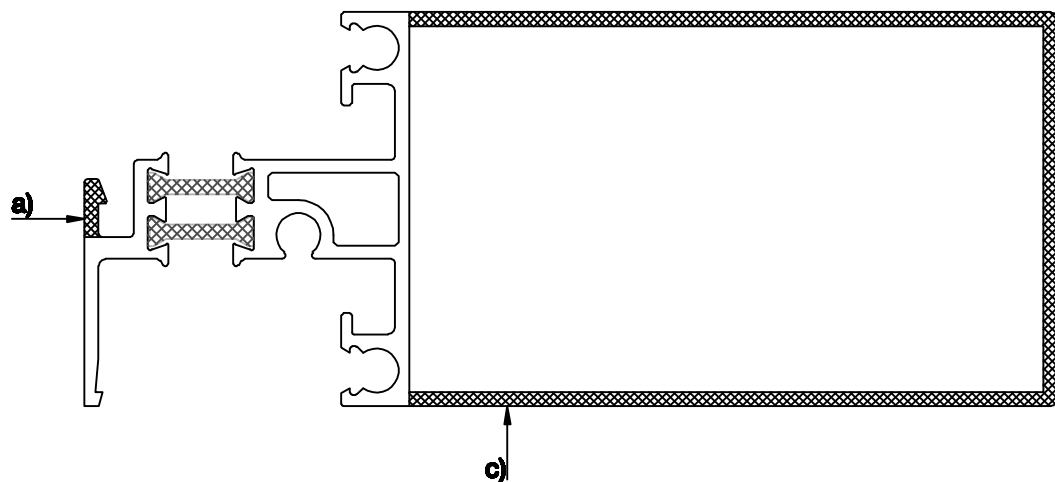
MC130



MC131



MC132

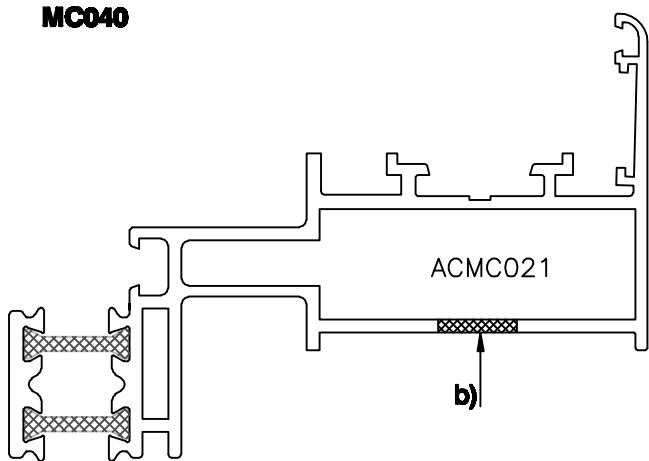


a) PT: MA40 Positions: 2
Drainage

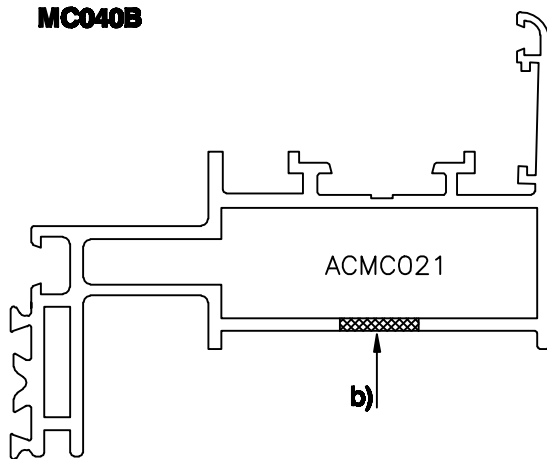
b) PT: MA40 Positions: 3
Corner Cleat

c) PT: KCW3126SS Positions: 1
19mm Transom Cut-out

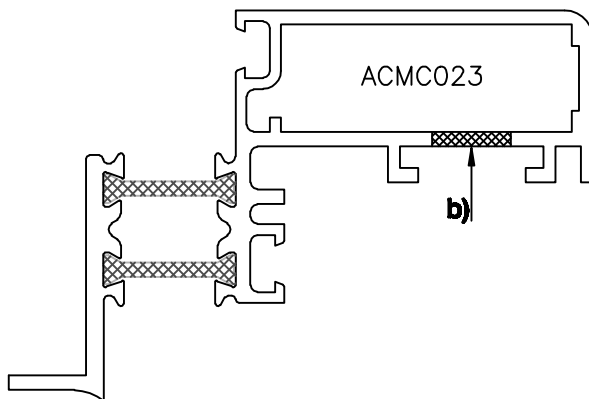
MC040



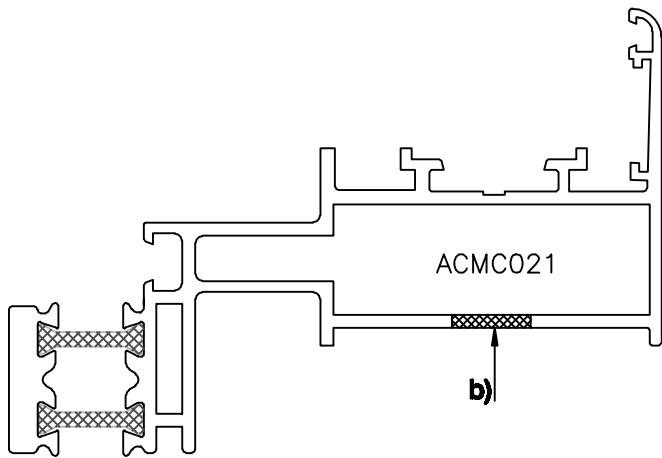
MC040B



MC045



MC140

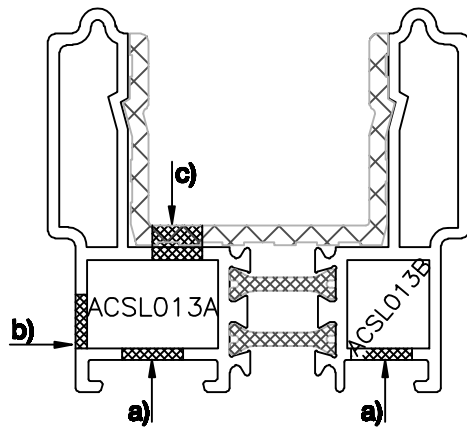


Slide Punch Tooling

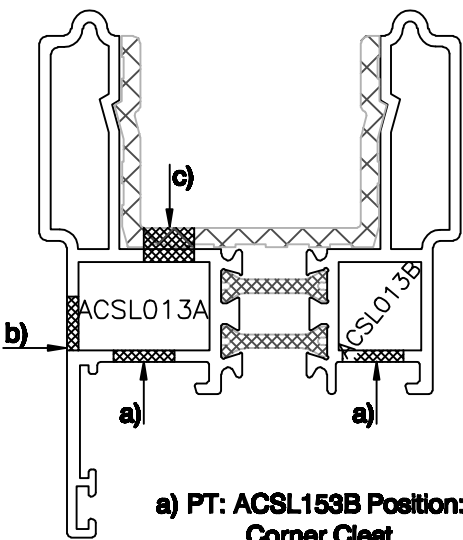
Page 1 of 2

OUTERFRAME

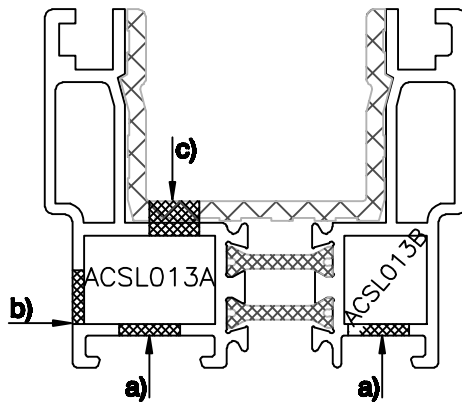
SL010
SL050



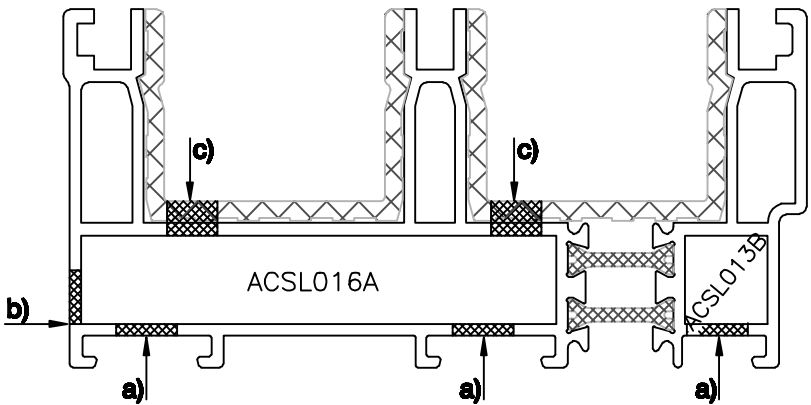
SL013



SL110



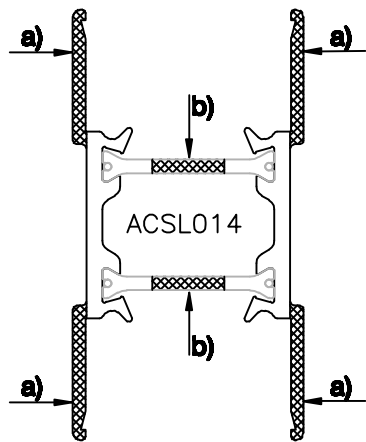
SL310



a) PT: ACSL153B Position: 1
Corner Cleat
b) PT: ACSL153B Position: 2
Face Drainage
c) PT: ACSL153B Position: 3
Centre Drainage

TRANSOM

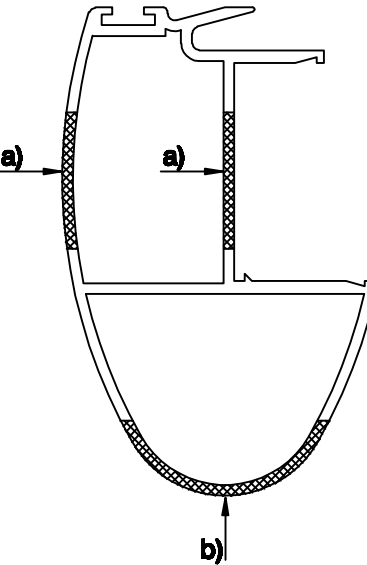
SL033



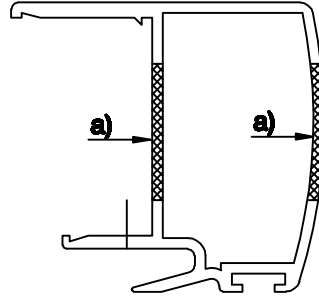
a) PT: ACSL153A Position: 3
Embedding cut-out
b) PT: ACSL153A Position: 4
Connecting Bracket Hole

INTERLOCKS

SL031



SL030



a) PT: ACSL153A Position: 7
Rail Passage & Screw Hole
b) PT: ACSL153A Position: 8
Sealing Member Cut-out

ACSL153A Punch Tool

- Position 1: Handle cut-out for SL020, 120 & 220
- Position 2: Rail passage & screw hole for SL020, 030, 031, 032, 120 & 220
- Position 3: Embedding cut-out for SL021 & 033
- Position 4: Connecting bracket hole punch for SL021 & 033
- Position 5: Fixed pulley hole punch for SL021
- Position 6: Pulley cut-out for SL021
- Position 7: Rail passage for SL031
- Position 8: Sealing member cut-out for SL031

ACVG160B Punch Tool

- Position 1: Corner cleat for SL010, 013, 110 & 310
- Position 2: Face drainage for SL010, 013, 110 & 310
- Position 3: Centre drainage for SL010, 013, 110 & 310

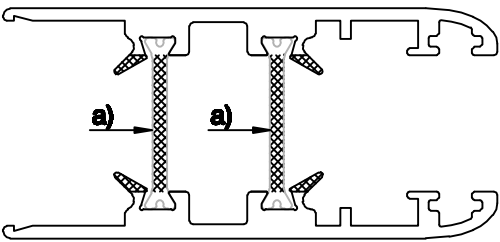
Slide Punch Tooling



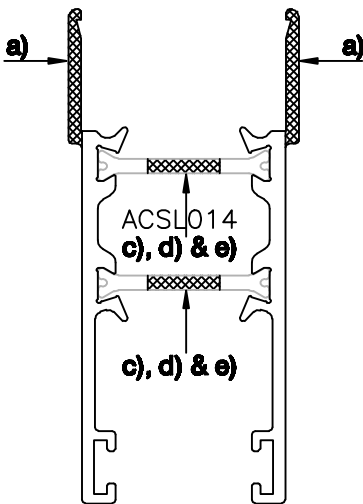
Page 2 of 2

VENT PROFILE

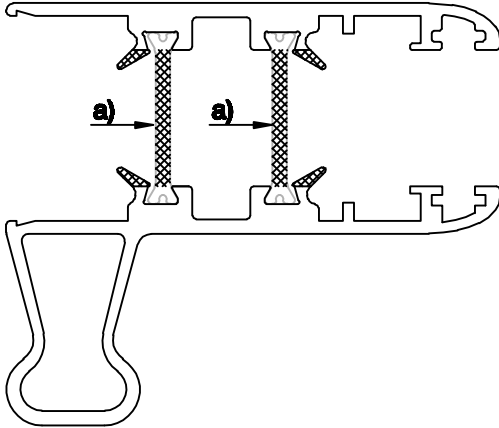
SL020



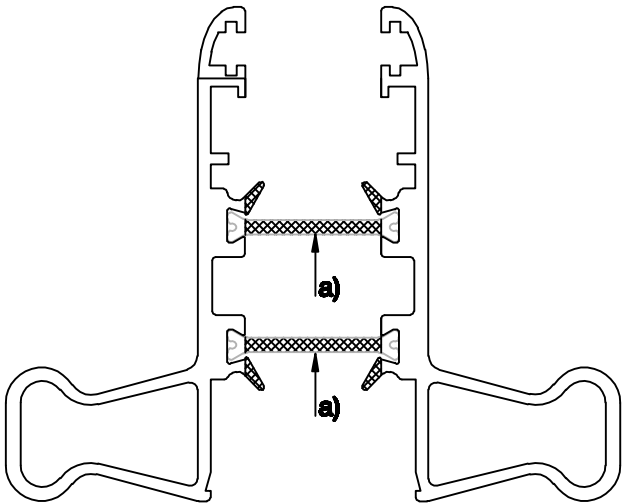
SL021



SL120



SL220



- a) PT: ACSL153A Position: 2
Rail Passage & Screw Hole
- b) PT: ACSL153A Position: 3
Embedding cut-out
- c) PT: ACSL153A Position: 4
Connecting Bracket Hole Punch
- d) PT: ACSL153A Position: 5
Fixed Pulley Hole Punch
- e) PT: ACSL153A Position: 6
Pulley Cut-out

ACSL153A Punch Tool

- Position 1: Not used.
- Position 2: Rail passage & screw hole for SL020, 030, 031, 032, 120 & 220
- Position 3: Embedding cut-out for SL021 & 033
- Position 4: Connecting bracket hole punch for SL021 & 033
- Position 5: Fixed pulley hole punch for SL021
- Position 6: Pulley cut-out for SL021
- Position 7: Rail passage for SL031
- Position 8: Sealing member cut-out for SL031

ACVG160B Punch Tool

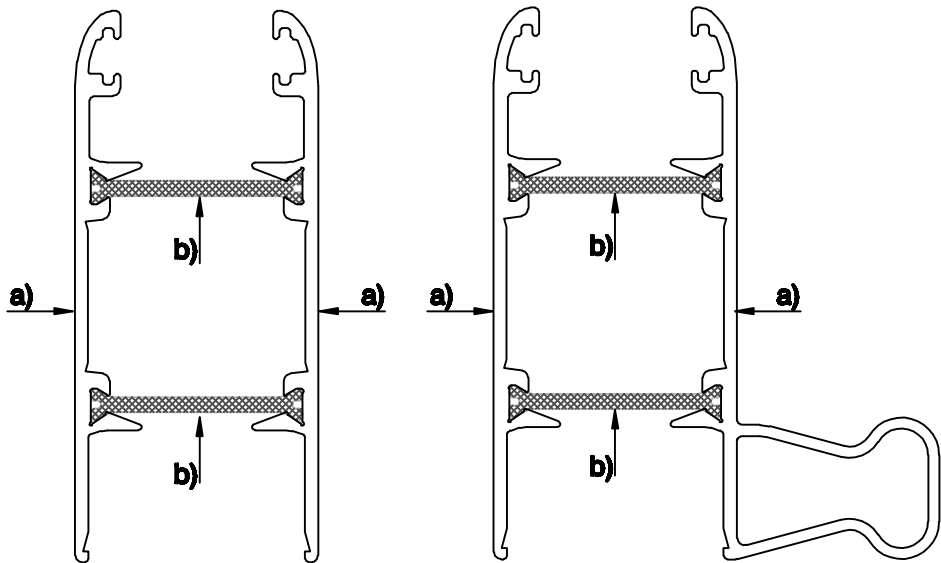
- Position 1: Corner cleat for SL010, 013, 110 & 310
- Position 2: Face drainage for SL010, 013, 110 & 310
- Position 3: Centre drainage for SL010, 013, 110 & 310



Slide Plus Punch Tooling

VENT PROFILE SL2020

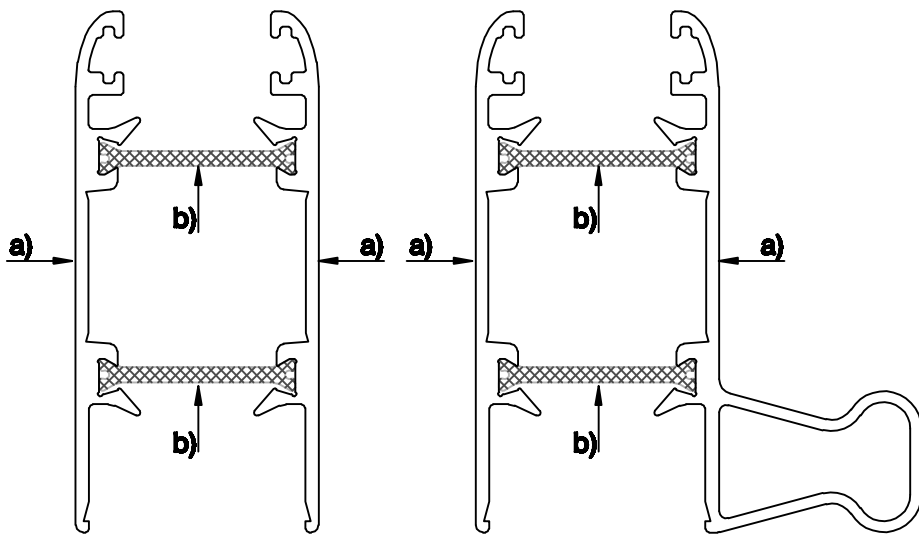
SL2120



a) PT: ACSL901A-1 Position: 1 & 2
Handle Slot
b) PT: ACSL901A-1 Position: 3
Hasp Crossing

VENT PROFILE SL1020

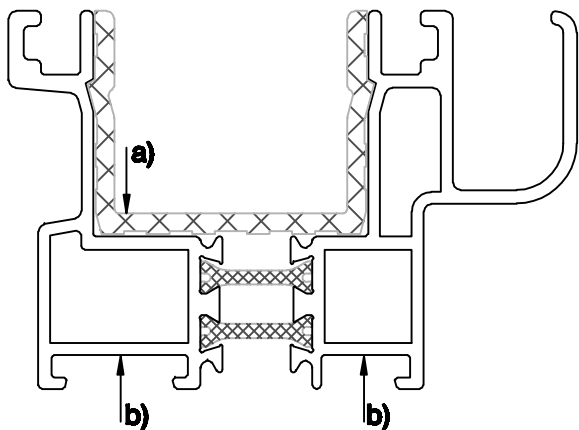
SL1120



a) PT: ACSL901A Position: 1 & 2
Handle Slot
b) PT: ACSL901A Position: 3
Hasp Crossing

CILL SECTION

SL1010

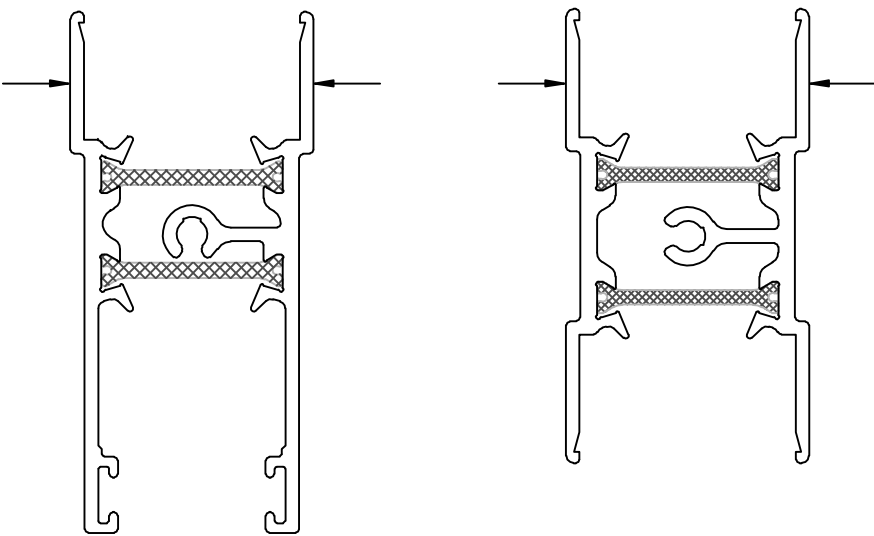


a) PT: ACSL901B Position: 5
Drainage
b) PT: ACSL901B Position: 6
Corner Cleat

RAILS

SL1021

SL1033



PT: ACSL901B Position: 2
T Connection

ACSL901A Punch Tool

Position 1: Handle slot for SL1020 & 1120

Position 2: Handle slot for SL1020 & 1120

Position 3: Hasp crossing for SL1020 & 1120

ACSL901A-1 Punch Tool

Position 1: Handle slot for SL2020 & 2120

Position 2: Handle slot for SL2020 & 2120

Position 3: Hasp crossing for SL2020 & 2120

ACSL901B Punch Tool

Position 1: Rail passage for SL1020 & 1120

Position 2: T connection for SL1021 & 1033

Positions 3 & 4: Rail clearance for SL1120

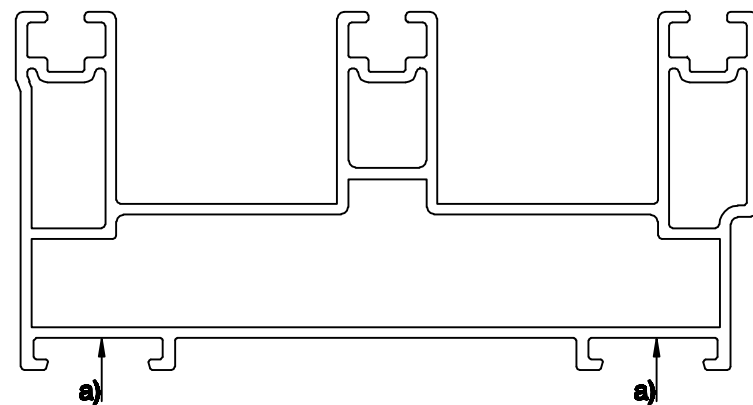
Position 5: Drainage for SL1010/SL050

Position 6: Square coupling SL1010

Slide Cold Punch Tooling

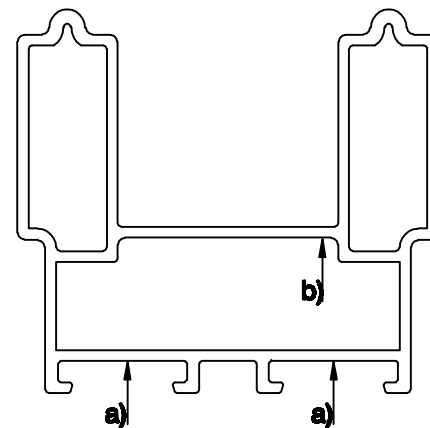


CILL SECTIONS SL8310

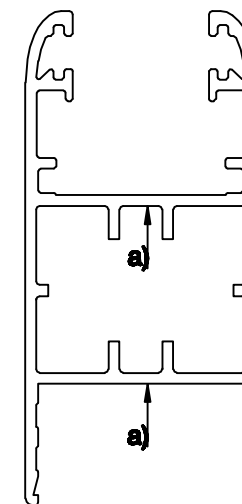


a) PT: ACSL853B Position: 1
Corner Cleat
b) PT: ACSL853B Position: 2
Drainage

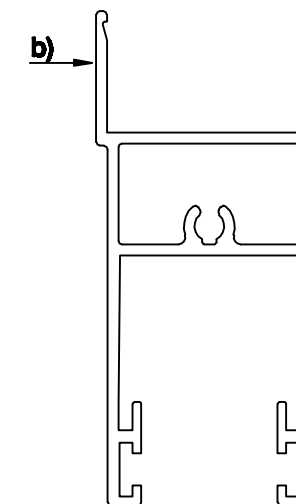
SL810



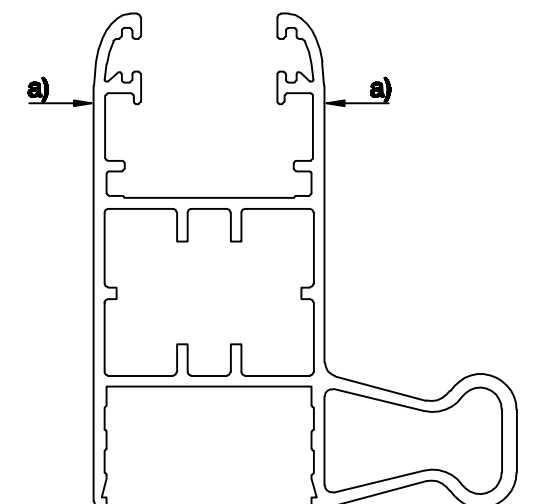
VENT PROFILE SL820



SL821

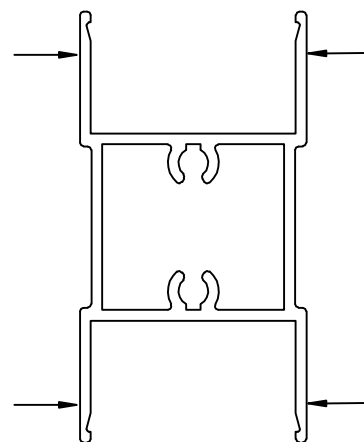


SL8120



a) PT: ACSL853A Position: 1
Rail Passage & Screw Hole
b) PT: ACSL853A Position: 4
Embedding Cut-out

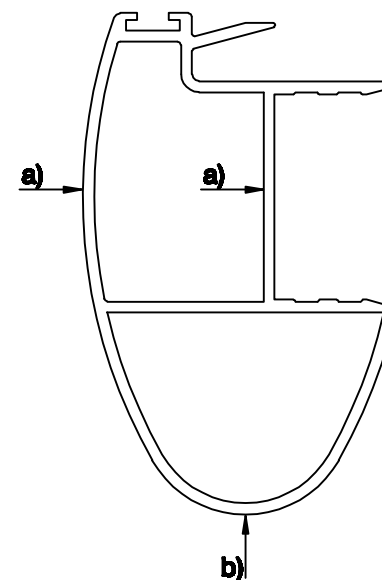
TRANSOM SL033



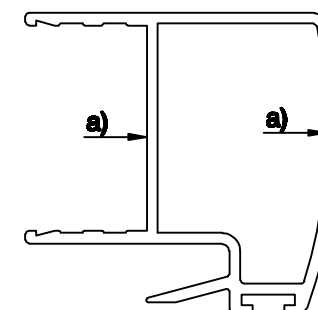
PT: ACSL853A Position: 4
Embedding Cut-out

INTERLOCKS

SL831



SL830



a) PT: ACSL853A Position: 2 & 3
Rail Passage & Screw Hole
b) PT: ACSL853A Position: 5 & 6
Sealing Member Cut-out

ACSL853A Punch Tool

- Position 1: Rail passage & screw hole for SL820 & 8120
- Position 2 & 3: Rail passage & screw hole for SL830 & 831
- Position 4: Embedding cut-out for SL821 & 833
- Position 5 & 6: Sealing member cut-out for SL831

ACVG853B Punch Tool

- Position 1: Corner cleat for SL810 & 8310
- Position 2: Drainage for SL810

Visoglide Punch Tooling

Page 1 of 2



COVER PROFILE

VG33

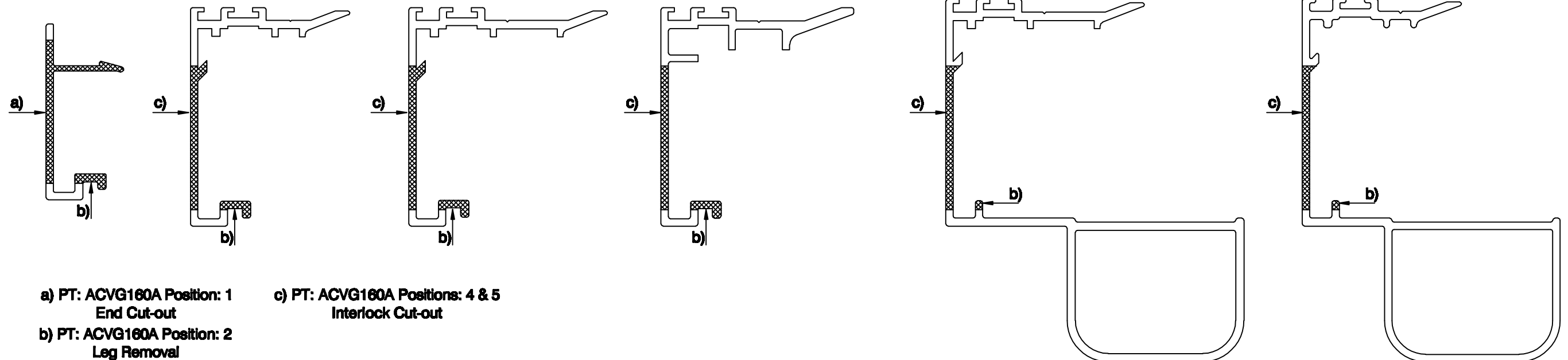
VG30

VG130

VG830

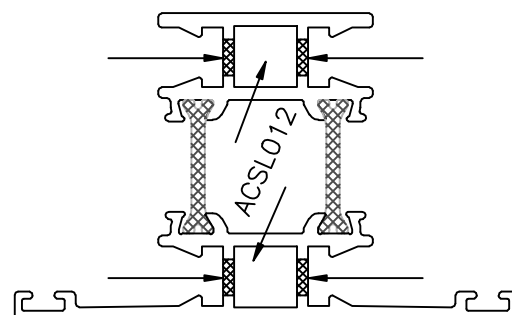
VG131

VG31



SASH TRANSOM

VG22



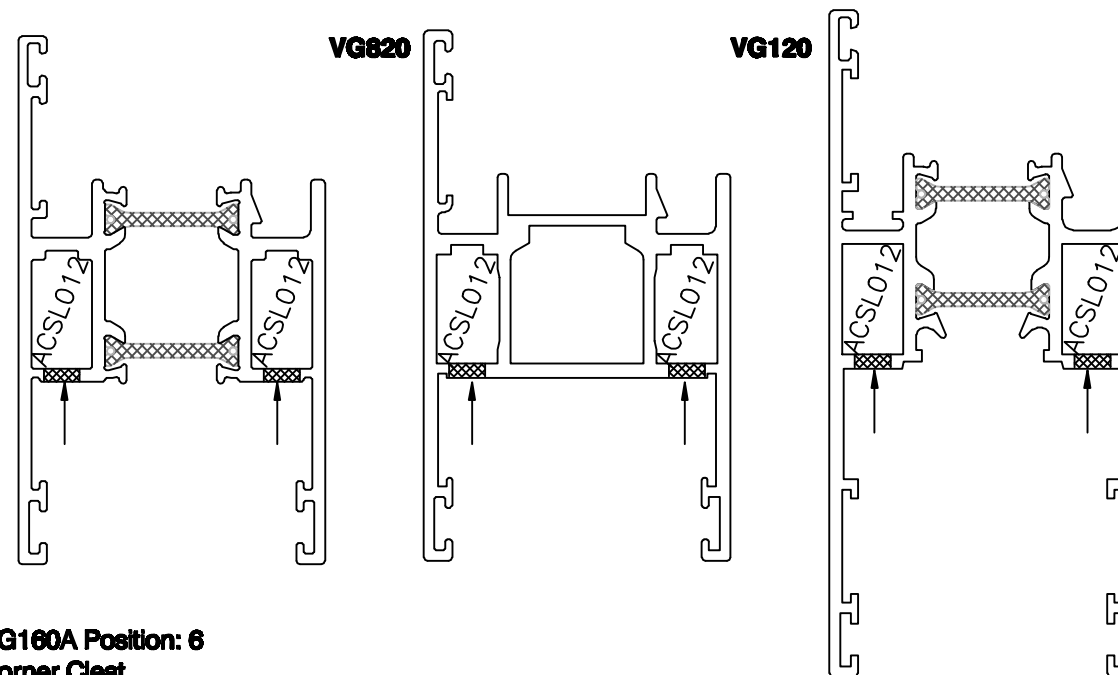
PT: ACVG160A Position: 5
Transom Hole Punch

VENT

VG20

VG820

VG120



PT: ACVG160A Position: 6
Corner Cleat

ACVG160A Punch Tool

Position 1: Cut-out (after leg removed on position 2) for VG33

Position 2: Short leg removal for VG30, 33, 130 & 830

Positions 3 & 4: Interlock cut-out for VG30, 31, 33, 130, 131 & 830

Position 5: Transom hole for VG22

Position 6: Corner cleat for VG20, 120 & 820

Position 7: Corner cleat for VG10, 13, 110 & 810

NB: For VG210 & VG310 punch tool ACVL167 is required using positions 1 & 2.

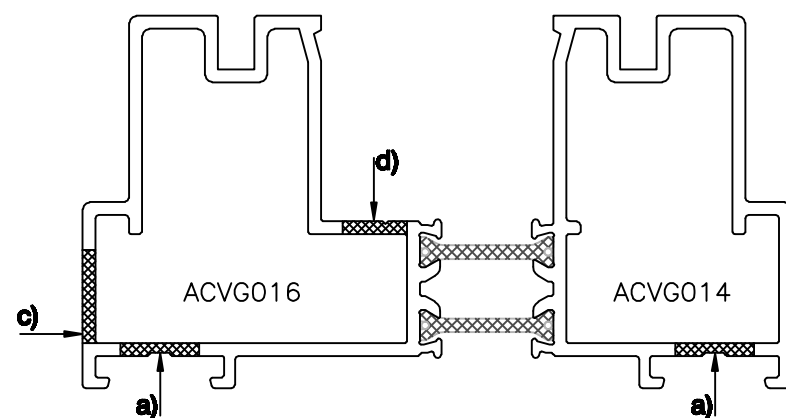
Visoglide Punch Tooling

Page 2 of 2

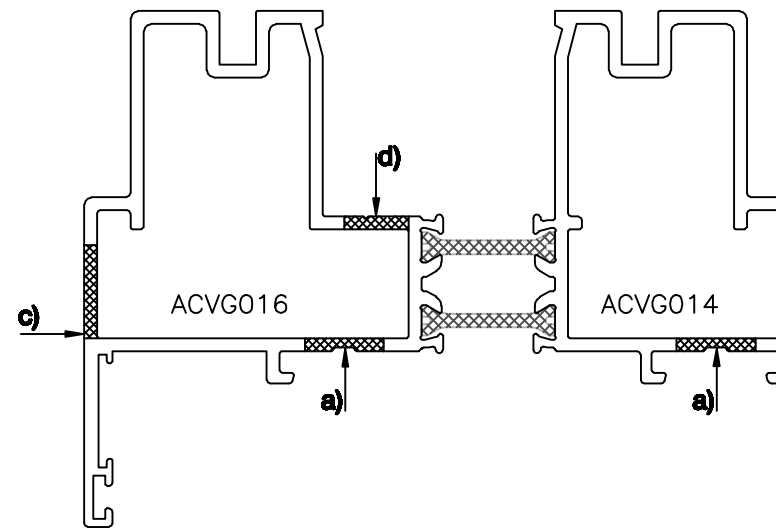


OUTER FRAME

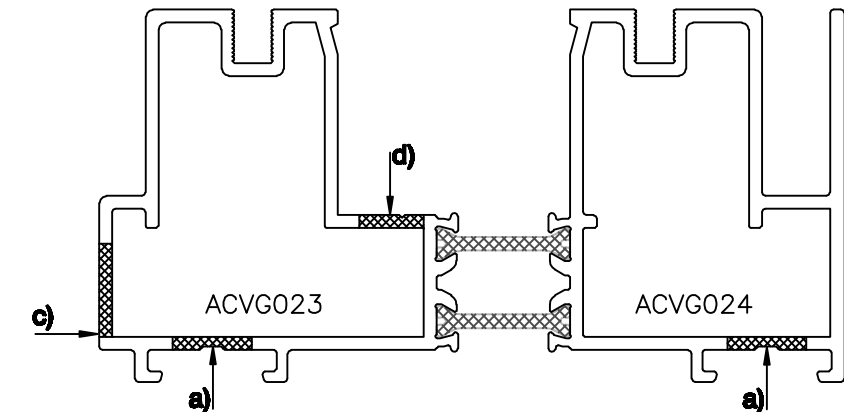
VG10



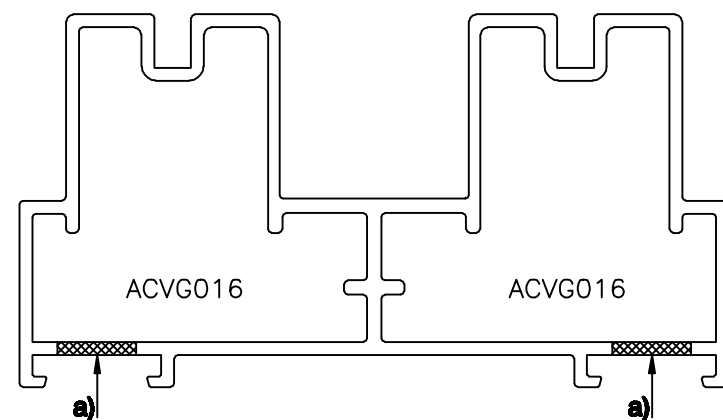
VG13



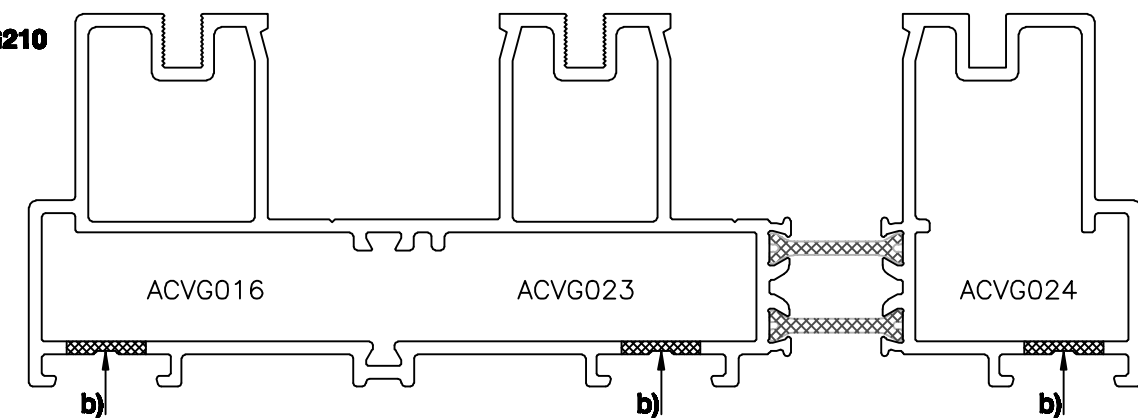
VG110



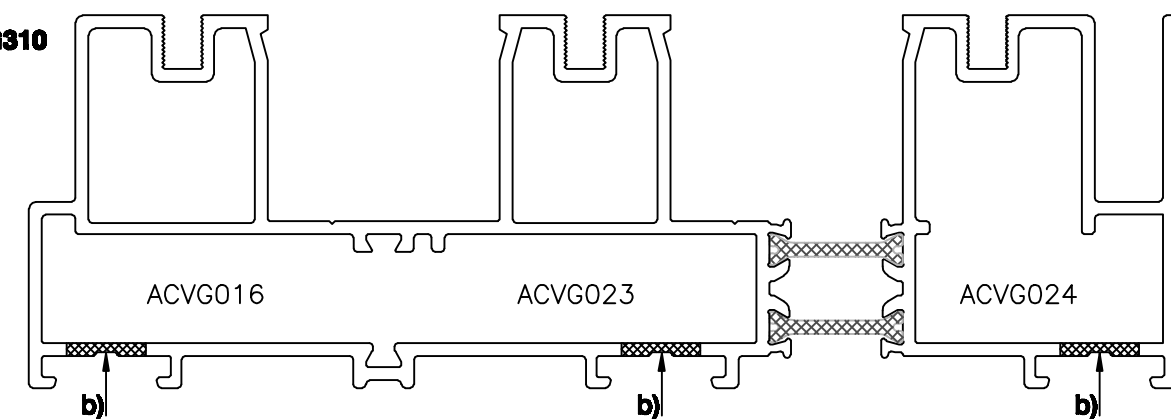
VG810



VG210



VG310



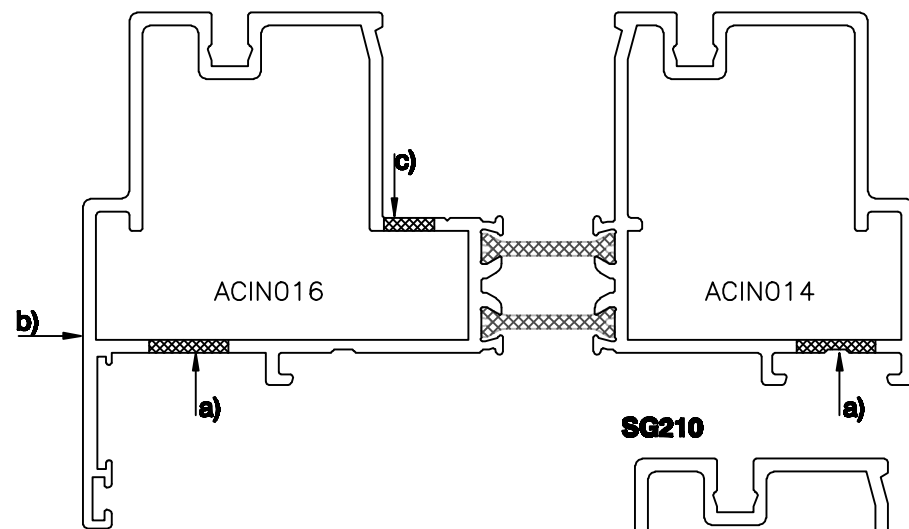
- a) PT: ACVG160A Position: 7
Corner Cleat
- b) PT: ACVL167 Positions: 1 & 2
Corner Cleat
- c) PT: ACVG160B Position: 1 & 4
Front Drainage
- d) PT: ACVG160B Positions: 2 & 3
Centre Channel Drainage

Superglide Punch Tooling

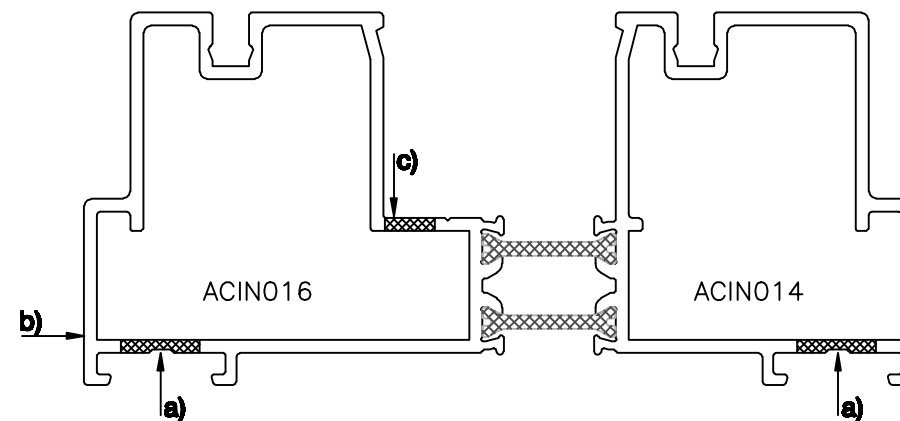


Outer Frame

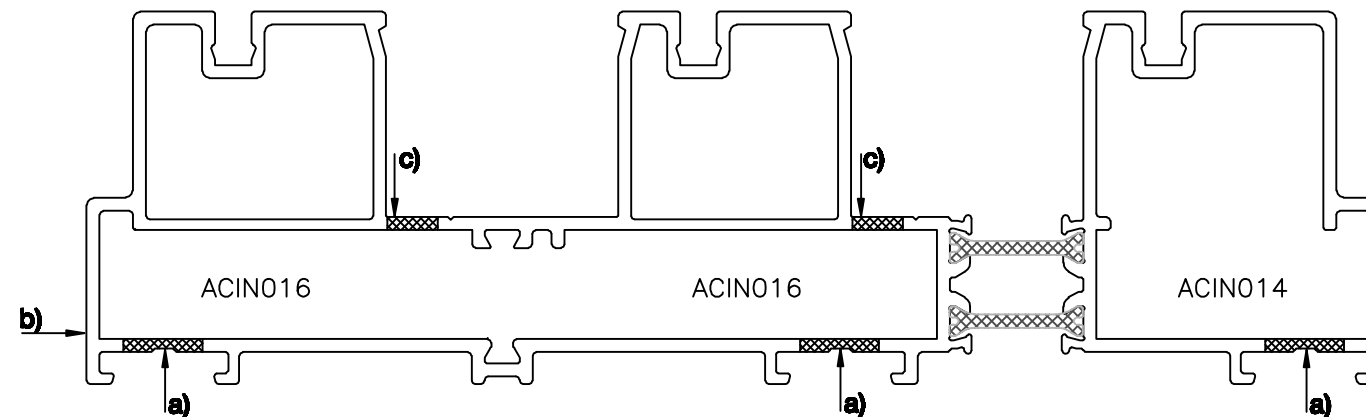
SG013



SG010



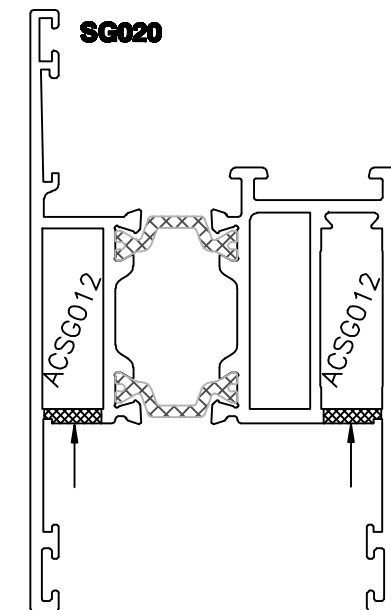
SG210



- a) PT: ACSG160A Position: 4
Corner Cleat
- b) PT: ACSG160B Position: 1
Drainage
- c) PT: ACSG160B Position: 2
Drainage

Sash Profile

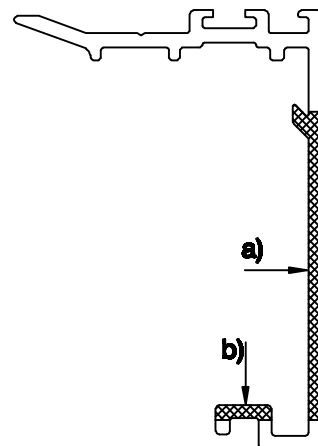
SG020



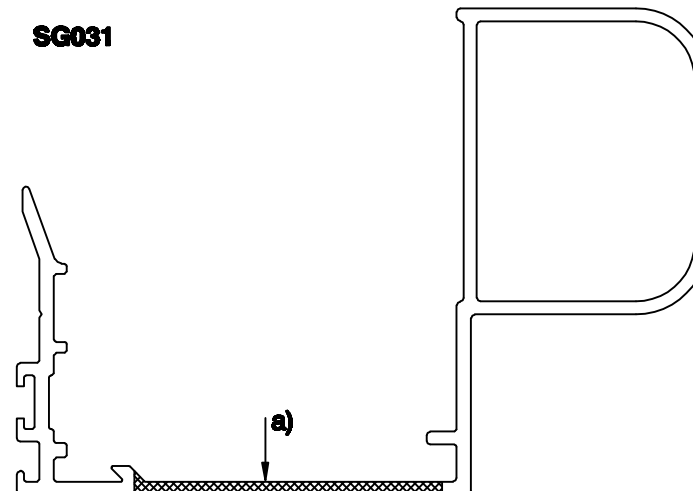
PT: ACSG160A Position: 5
Corner Cleat

Chicanes/Cover Profiles

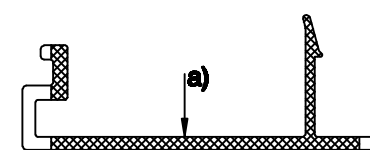
SG030



SG031



SG033



- a) PT: ACSG160A Position: 1 & 2
Rail Passage
- b) PT: ACSG160A Position: 13
Leg Removal

ACSG160A Punch Tool

Positions 1 & 2: Rail passage for SG030, 031 & 033

Position 3: Leg Removal for SG030

Position 4: Corner cleat for SG010, 013 & 210

Position 5: Corner cleat for SG020

ACSG160B Punch Tool

Position 1 & 2: Drainage for SG010, 013 & 210