



Arkay Windows

TECHNICAL DOCUMENTS

ALUK 58 BW ST

ALUK 58 BW ST

58BW ST STEEL REPLACEMENT WINDOW

The look of steel, the benefits of aluminium.

A win-win for designers and homeowners alike. Featuring industry leading build quality, our 58BW ST aluminium windows are an ideal replacement for existing steel windows. In addition to impressive high thermal and acoustic performance, the design also replicates the minimal sight lines associated with steel windows, whilst providing superior performance and security. Yet another win-win.

DESIGN FEATURES

- Certified under the Secured By Design scheme
- Tested to PAS 24
- Green guide rated A
- Integrated deep head profiles for ease of trickle ventilation
- Unique polyamide thermal break design to improve thermal performance

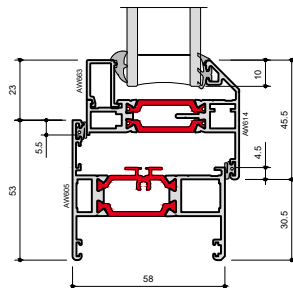
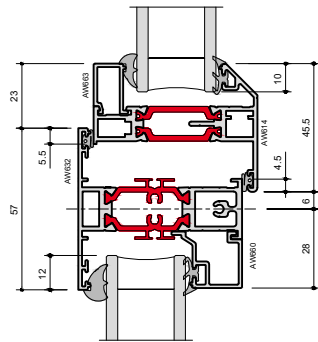
OPTIONS

- 58mm or 70mm frame depth to accommodate varying types of applications
- Internally or externally glazed
- Glazing 24mm – 32mm
- Available for Lifetime Homes (LFT)
- Available in a range of single or dual colour and anodised finishes
- Available in the following aesthetics: Bay, Heritage and Contemporary
- Available in the following configurations: top hung, bottom hung, side hung, fixed light, multi-light and French casement



Heritage Cill Detail

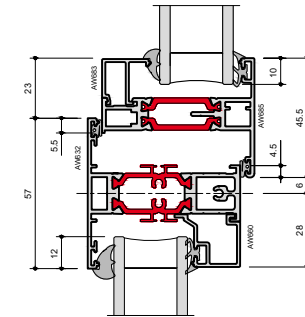
Heritage Transom Detail



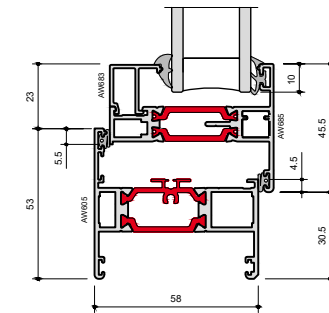
SPECIFICATIONS

PERFORMANCE & ACCREDITATION	OUTWARD OPENING
• U-value (double glazing)	1.4 W/m ² K
† U-value (triple glazing)	1.2 W/m ² K
Window energy rating (WER)	A - B
Green guide rating	A rated
Acoustic performance (dB)	Rw (C,Ctr) 43 (-2,-5) dB
Air tightness (Pa)	Class 4 (600 Pa)
Water tightness (Pa)	Class 9a (600 Pa)
Wind load (Pa)	Class E2400 (2400 Pa)
Security	PAS 24
3rd party certification	Q-mark
Secured by design	Yes
CONFIGURATIONS	
Opening	Open out
Top hung	
Side hung	
Bottom hung	
Fixed light	
Multi-light	
French casement	
SIZE LIMITS	
Top hung (max weight)	35 Kg
Side hung (max weight)	24 Kg
Bottom hung (max weight)	60 Kg (3 hinges)
Fixed light (max weight)	250 Kg
SYSTEM FEATURES	
Frame depth	58mm and 70mm
Dual colour option	
Multi-point locking	
Glazing options	250 Kg
Glazing thickness	24mm - 32mm
Sightline (Frame to Vent)	66mm
Sightline (Vent to Mullion)	81mm
Sightline (Fixed Light)	43mm
AESTHETICS	
Bay	
Contemporary	
Heritage	

Contemporary Transom Detail



Contemporary Cill Detail



U-Value (Double Glazing) - Windows are calculated using EN ISO 10077 - Part 2, 1230mm x 1480mm Side hung next to fixed light with Ug: 1.0 W/m²K using AW603 outerframe and AW614 vent/U-Value (Triple Glazing) - Windows are calculated using EN ISO 10077 - Part 2, 1230mm x 1480mm Side hung next to fixed light with Ug: 0.7 W/m²K using AW603 outerframe and AW605 vent

Green Guide Rating - Calculated using the Green Guide 2008 ratings for domestic windows, Powder Coated Aluminium window (Profile $\le 0.88\text{g/m}^2$) double glazed

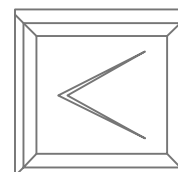
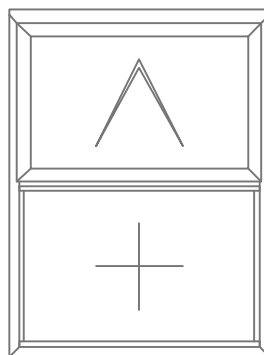
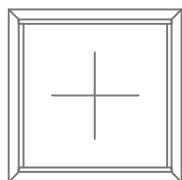
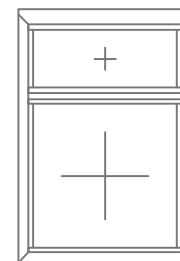
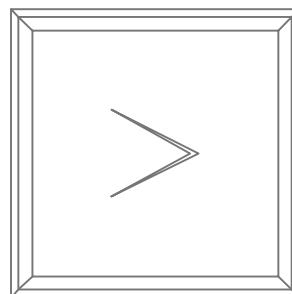
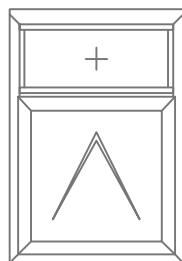
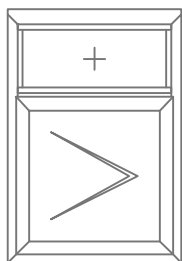
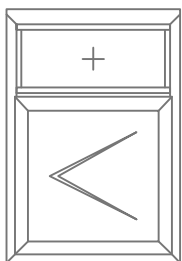
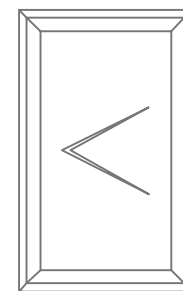
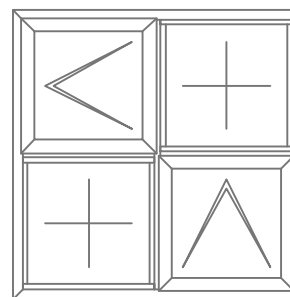
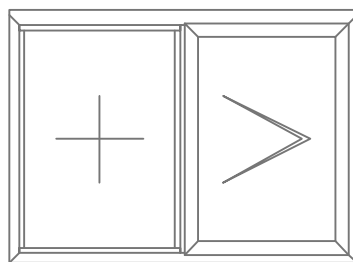
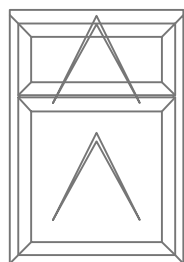
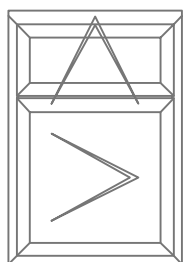
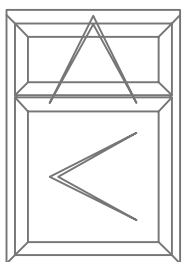
Acoustic Performance (dB) - Tested using AW604 outerframe and AW605 vent, 81/68.8mm Acoustic Laminated Glass

Top Hung (max weight) - Based upon Nico 24" Standard top hung friction stay / Side Hung (max weight) - Based upon Nico 16" Standard side hung friction stay / Bottom Hung (max weight) - Based upon 3 x RW20M hinges

58BW ST - Contents

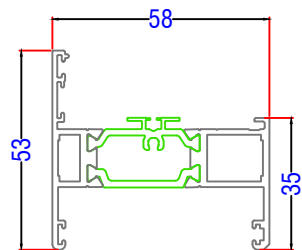
- 1.0 Typical Elevations
- 2.0 Standard Profiles
- 3.0 Typical Sections
 - 3.1 Fixed Jamb
 - 3.2 Open Out Jamb
 - 3.3 Fixed Head
 - 3.4 Open Out Head
 - 3.5 Head Detail with Trickle Vent
 - 3.6 Base Cill Details:
 - 3.6a 95mm Stub Cill
 - 3.6b 150mm Drop Nose Cill
 - 3.6c 190mm Drop Nose Cill
 - 3.7 Coupling Bars:
 - 3.7a Concealed Coupler
 - 3.7b 25/15 Coupler
 - 3.7c 36/26 Coupler
 - 3.8 Fixed - Open Mullion
 - 3.9 Open - Open Mullion
 - 3.10 Fixed - Fixed Transom
 - 3.11 Fixed - Open Transom
 - 3.12 Open - Open Transom
 - 3.13 Bay Window Baypoles
 - 3.13a 90° to 120° Circular Baypole
 - 3.13b 45° Baypole
 - 3.14 Frame Extender

AL UK 58BW ST - Typical Elevations

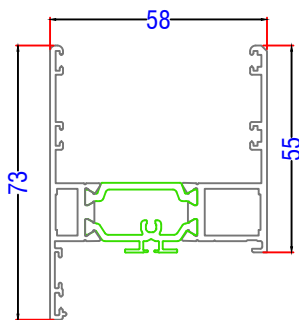


Various configuration available

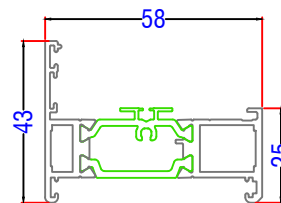
AL UK 58BW ST - Standard Profiles



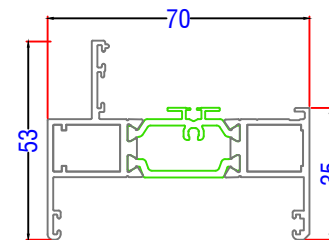
AL UK AW605 - Outer Frame



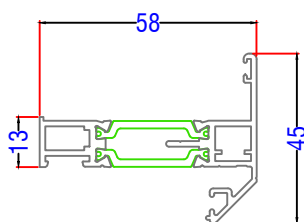
AL UK AW608 - Outer Frame



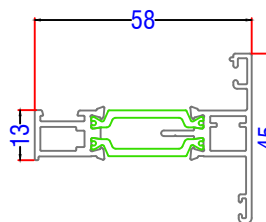
AL UK AW604 - Outer Frame



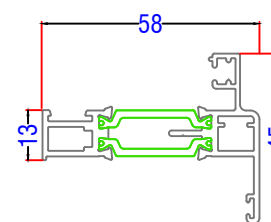
ALU UK AW622 - Outer Frame



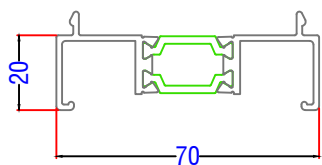
AL UK AW614 - Vent



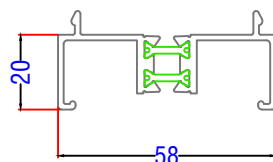
AL UK AW685 - Vent



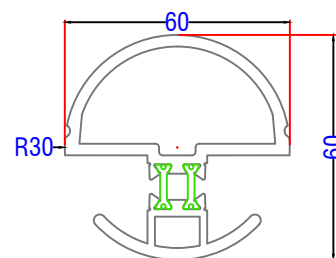
AL UK AW686 - Vent



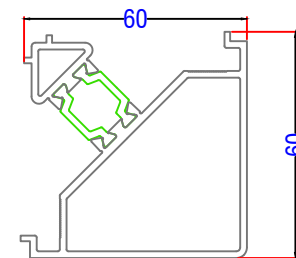
AL UK AW724 - Frame Extender



AL UK AW725 - Frame Extender

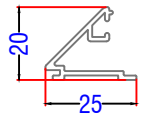


AL UK AW712 - Baypole

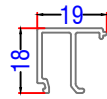


AL UK AW721 - Baypole

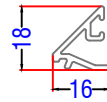
AL UK 58BW ST - Standard Profiles



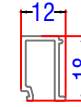
AL UK AW513 - Chamfered Glazing Bead



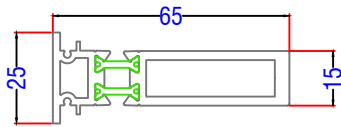
AL UK AW683 - Square Glazing Bead



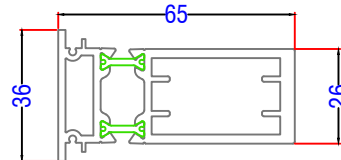
AL UK AW682 - Chamfered Glazing Bead



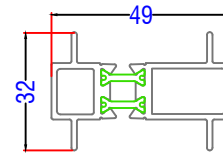
AL UK AW663 - FLat Glazing Bead



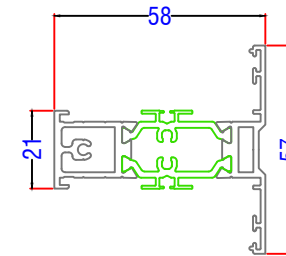
AL UK AW703 - Coupling Bar



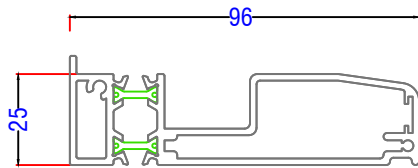
AL UK AW706 - Coupling Bar



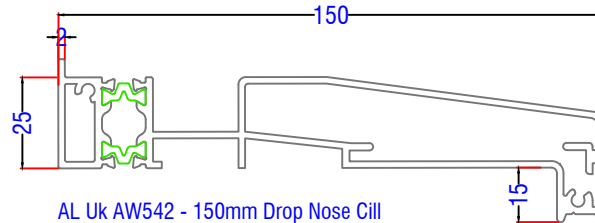
AL UK AW710 - Coupling Bar



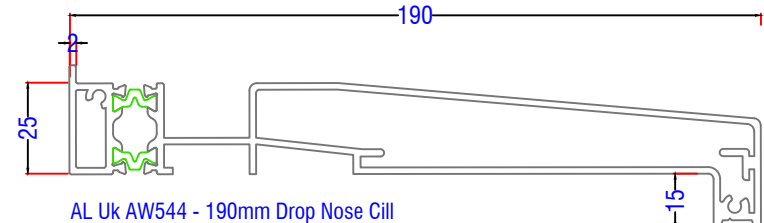
AL UK AW631 - Mullion/Transom



AL UK AW570 - 95mm Stub Cill



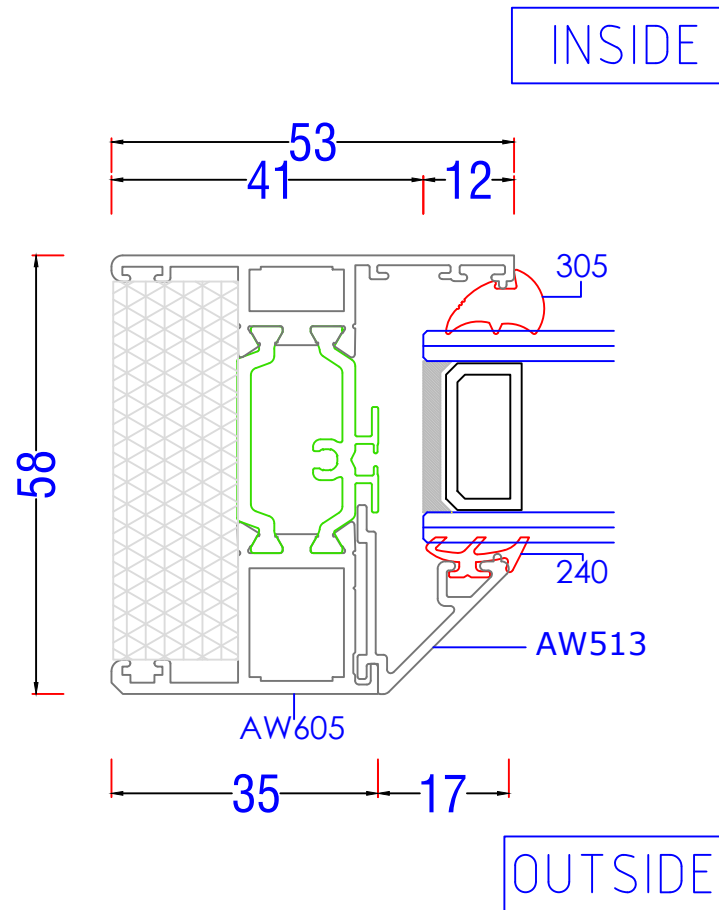
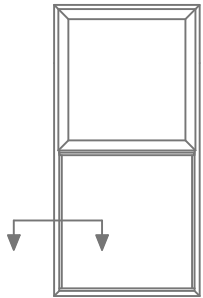
AL UK AW542 - 150mm Drop Nose Cill



AL UK AW544 - 190mm Drop Nose Cill

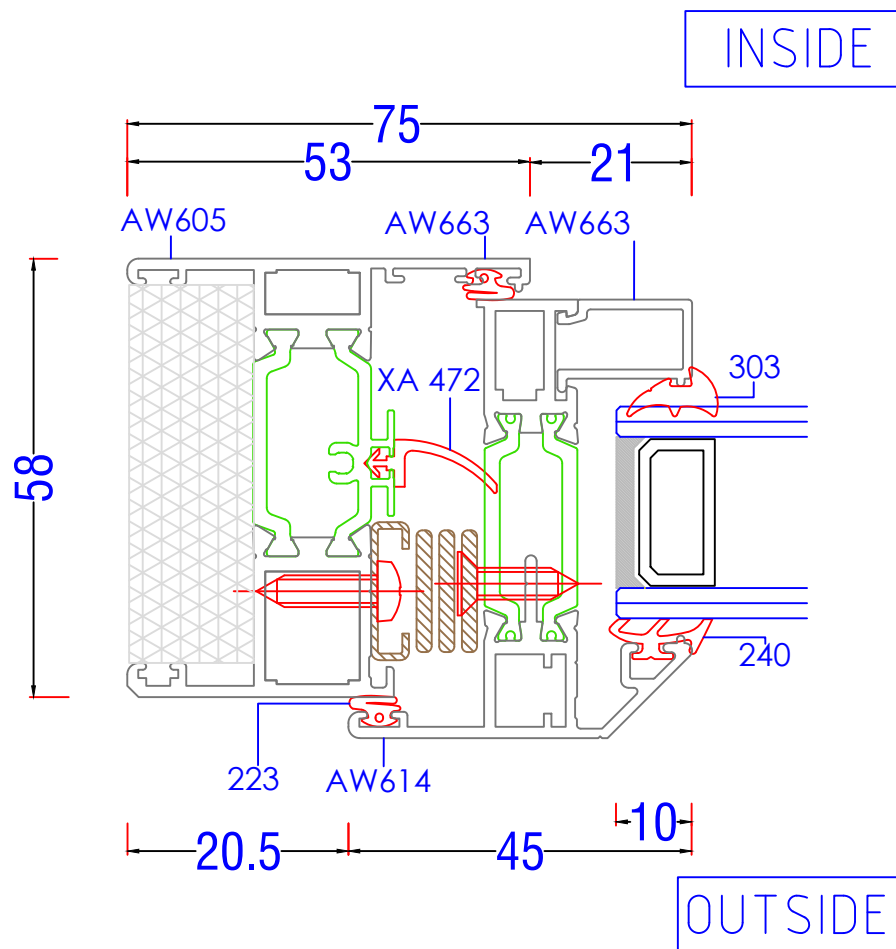
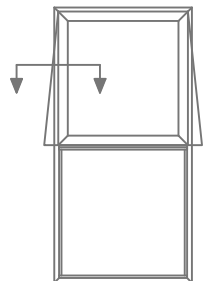
AL UK 58BW ST - Typical Sections

Fixed Jamb



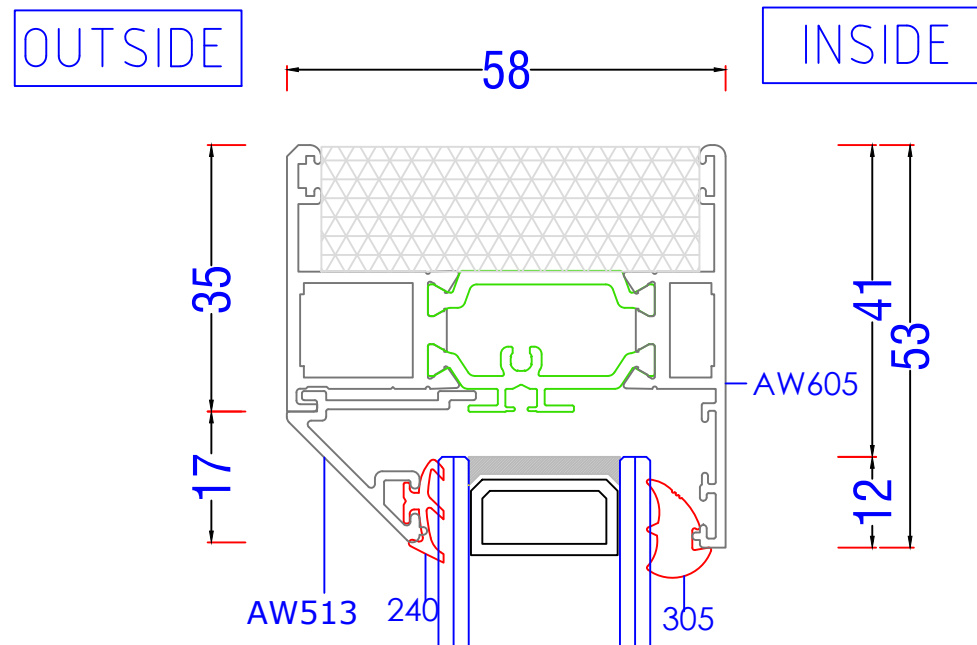
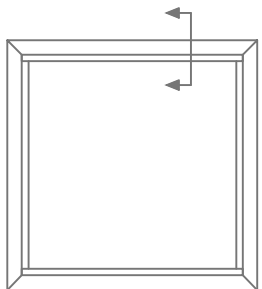
AL UK 58BW ST - Typical Sections

Open Out Jamb



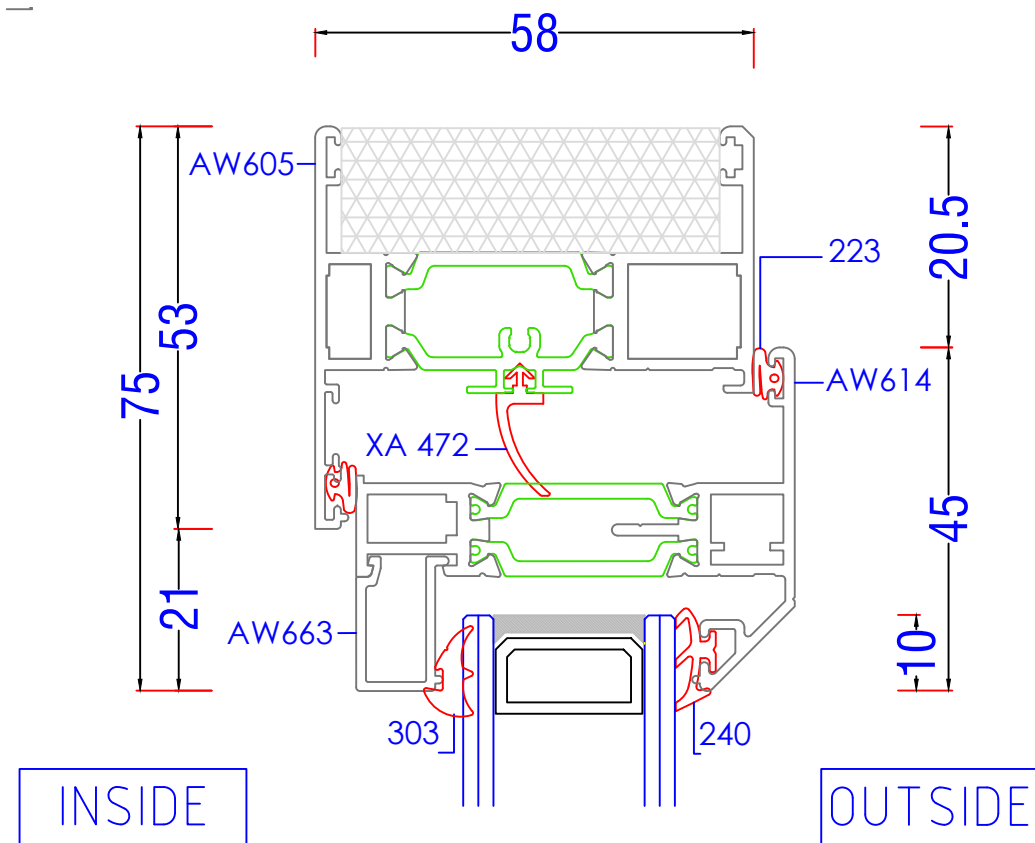
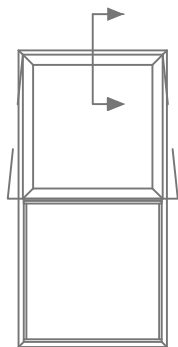
AL UK 58BW ST - Typical Sections

Head - Fixed



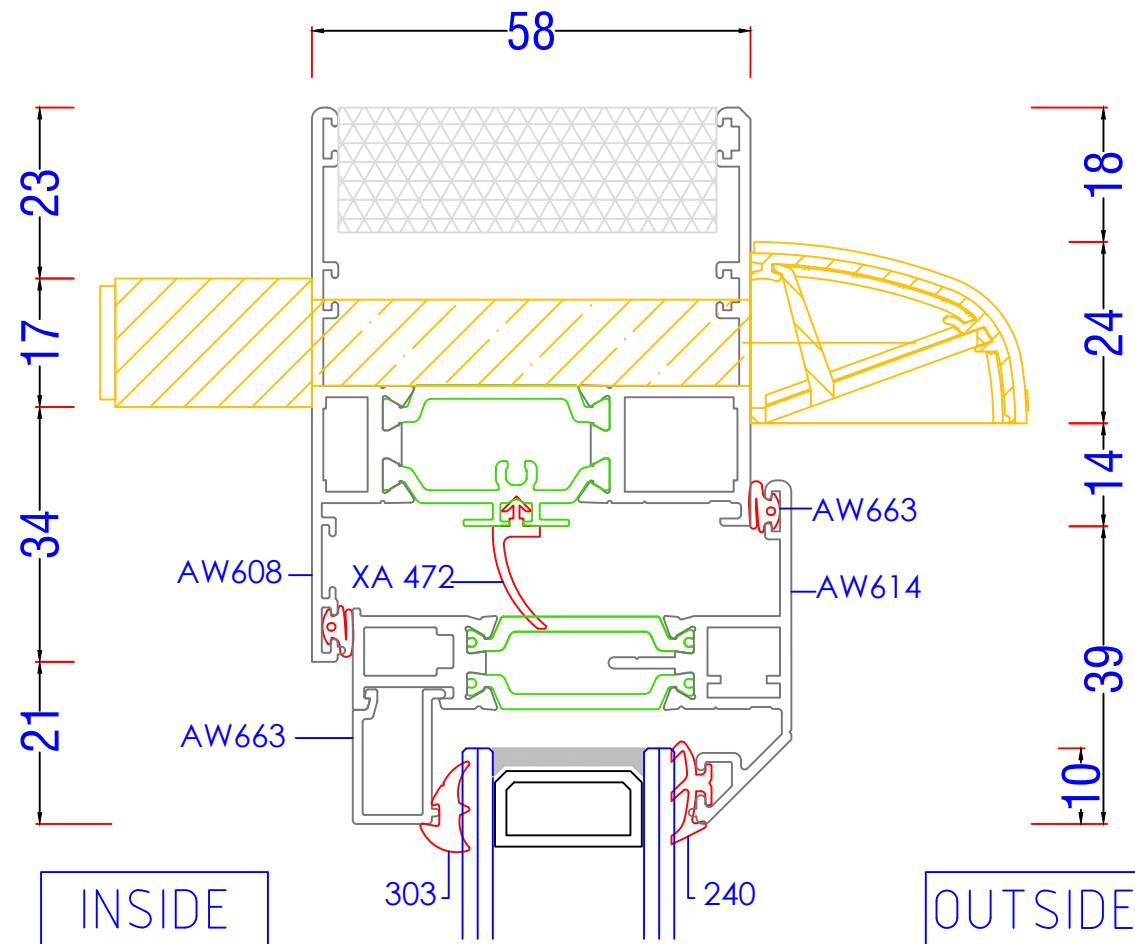
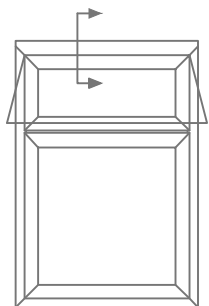
AL UK 58BW ST - Typical Sections

Head - Open Out



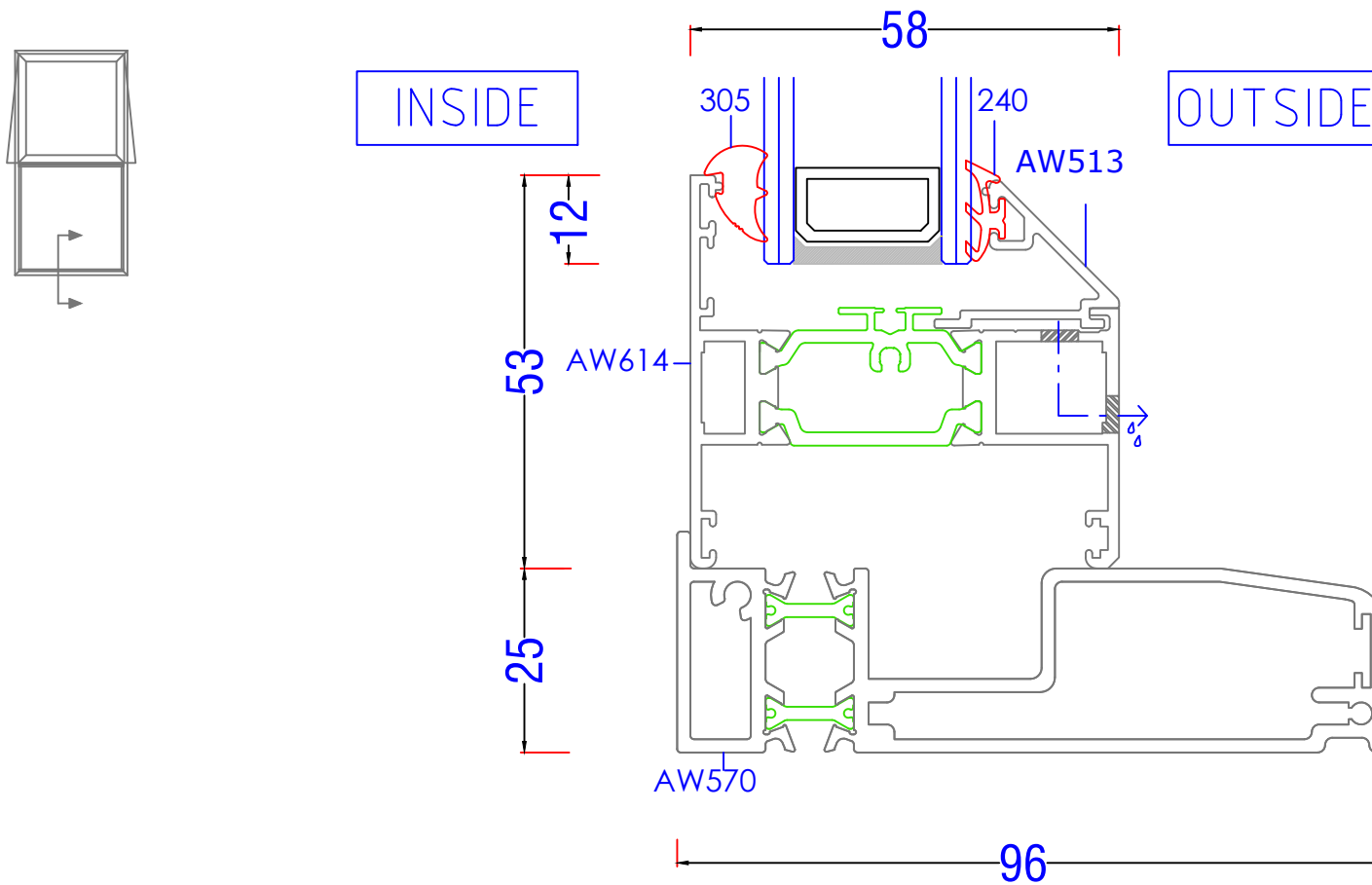
AL UK 58BW ST - Typical Sections

Head with Deep Outer Frame for Trickle vent



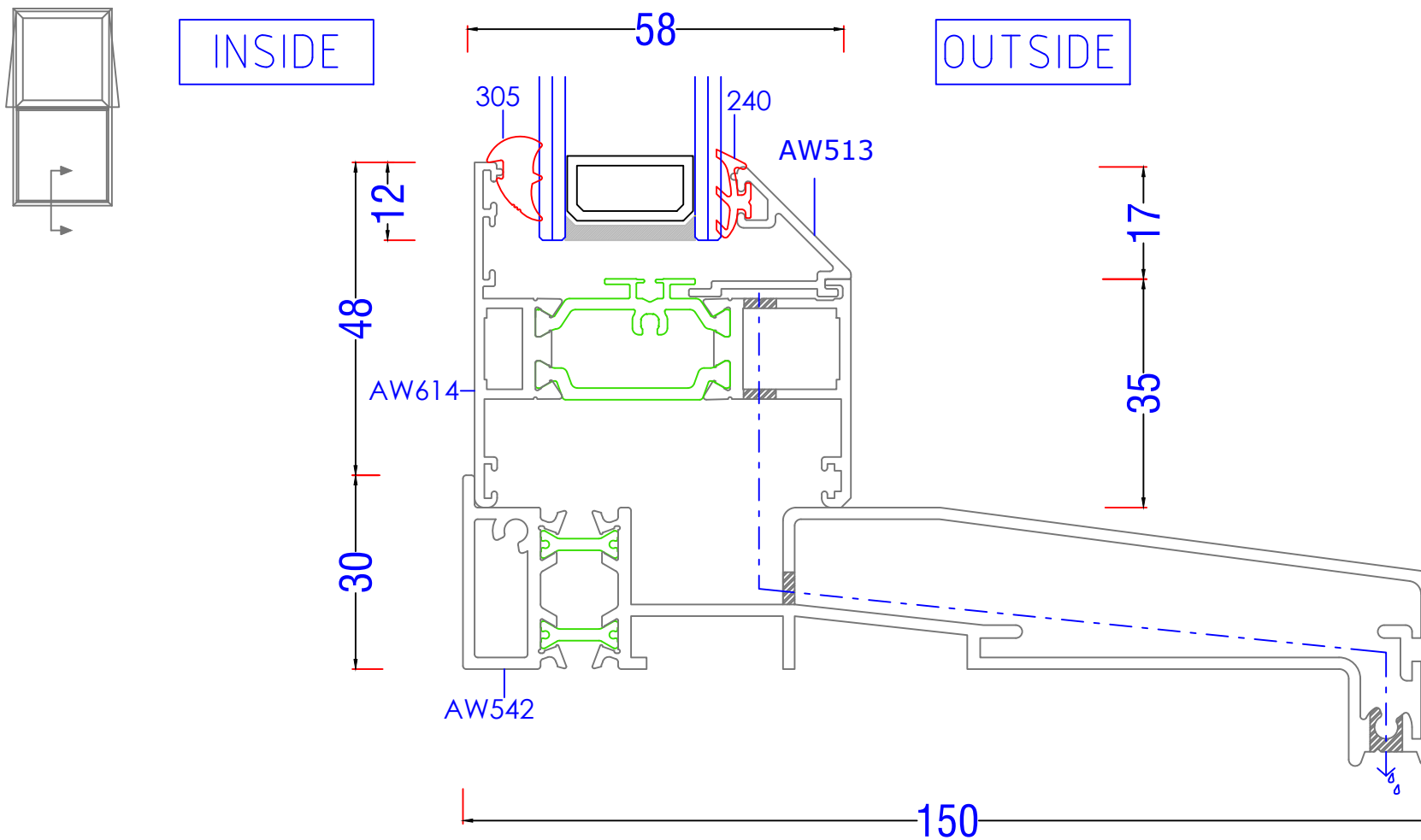
AL UK 58BW ST - Typical Sections

Base - 95 Stub Cill



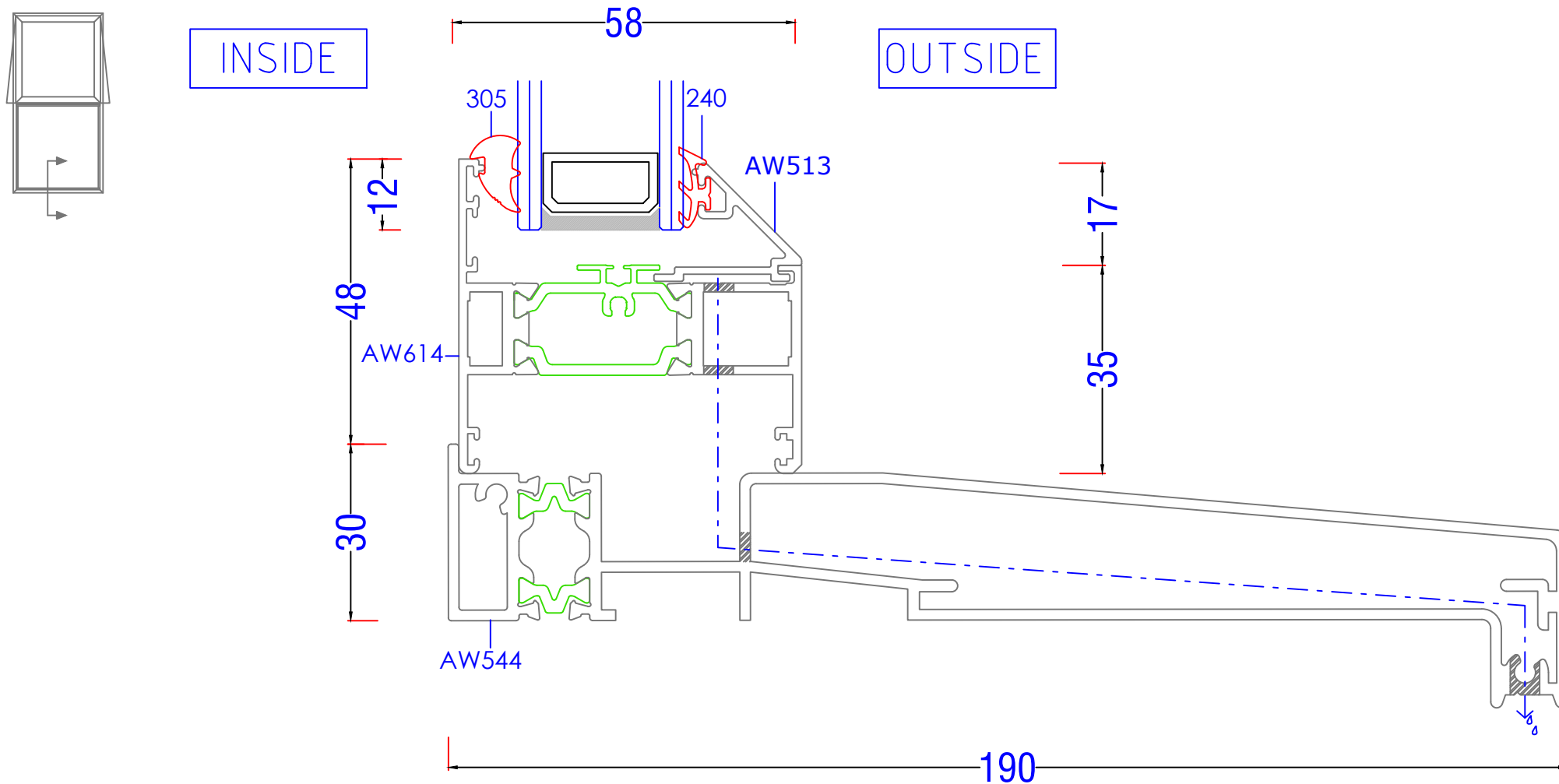
AL UK 58BW ST - Typical Sections

Base - 150 Drop Nose Cill



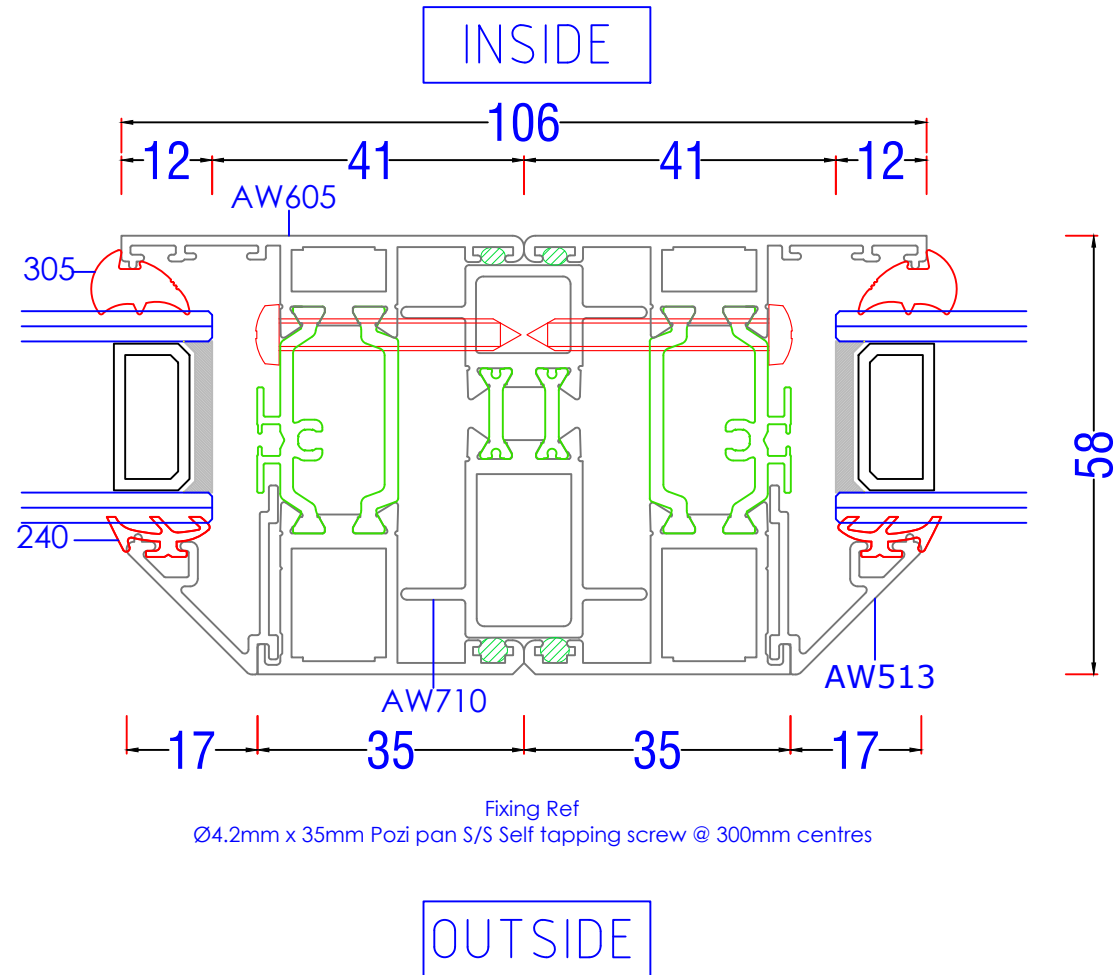
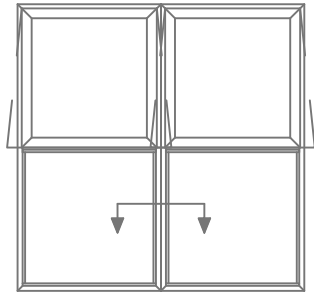
AL UK 58BW ST - Typical Sections

Base - 190 Drop Nose Cill



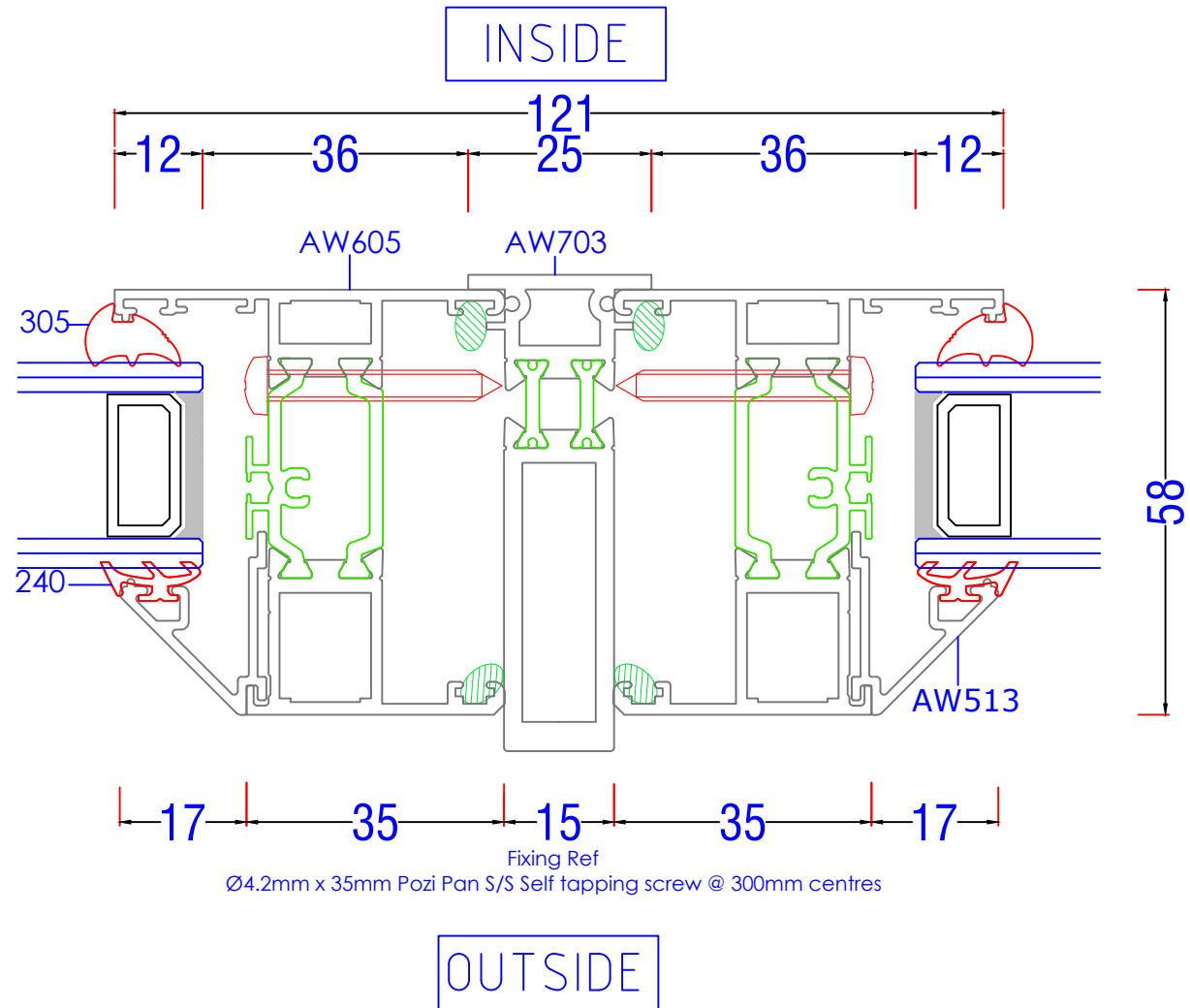
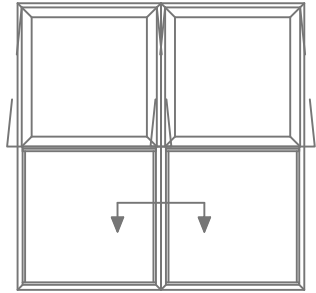
AL UK 58BW ST - Typical Sections

Concealed Coupling Bar



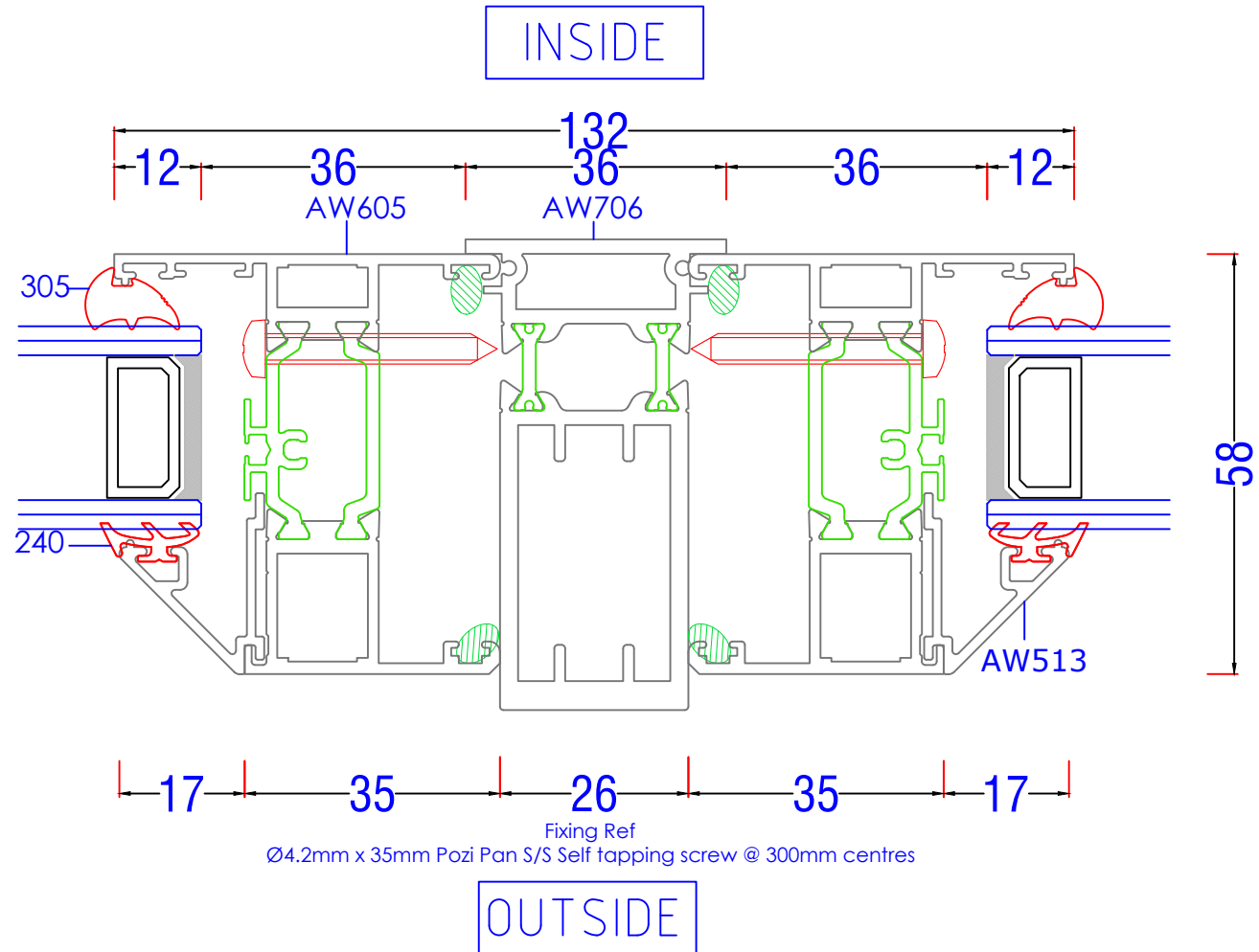
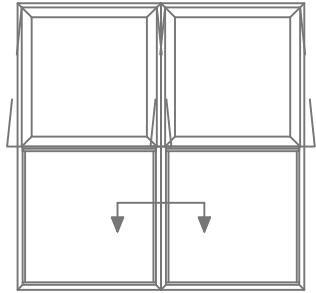
AL UK 58BW ST - Typical Sections

25/15 Coupling Bar



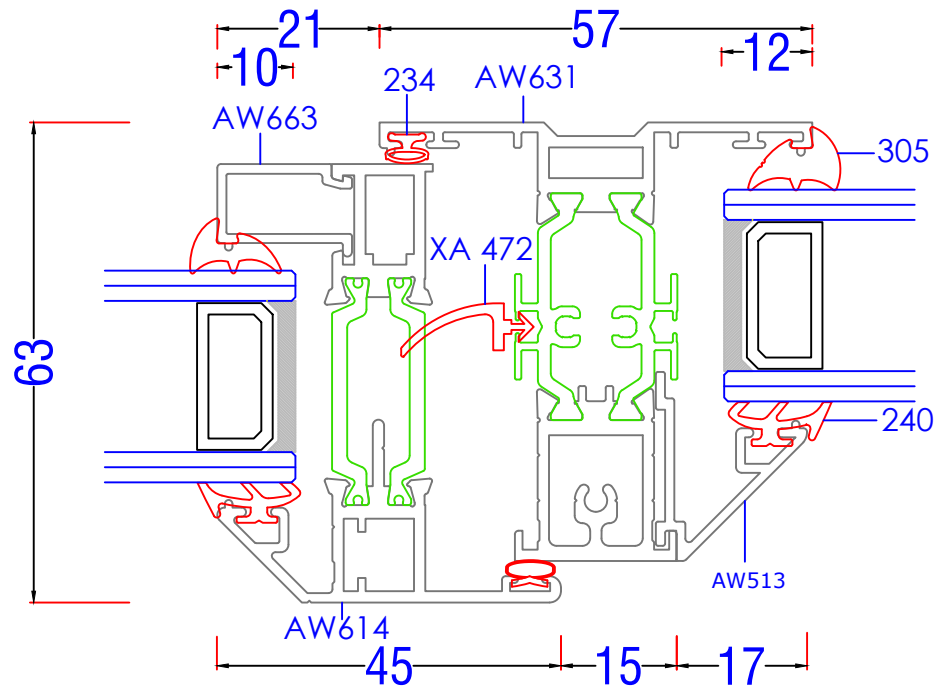
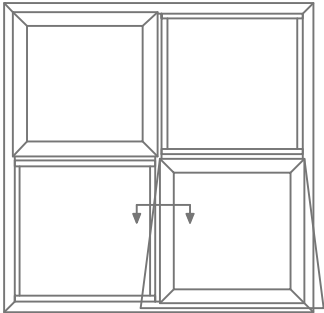
AL UK 58BW ST - Typical Sections

36/26 Coupling Bar



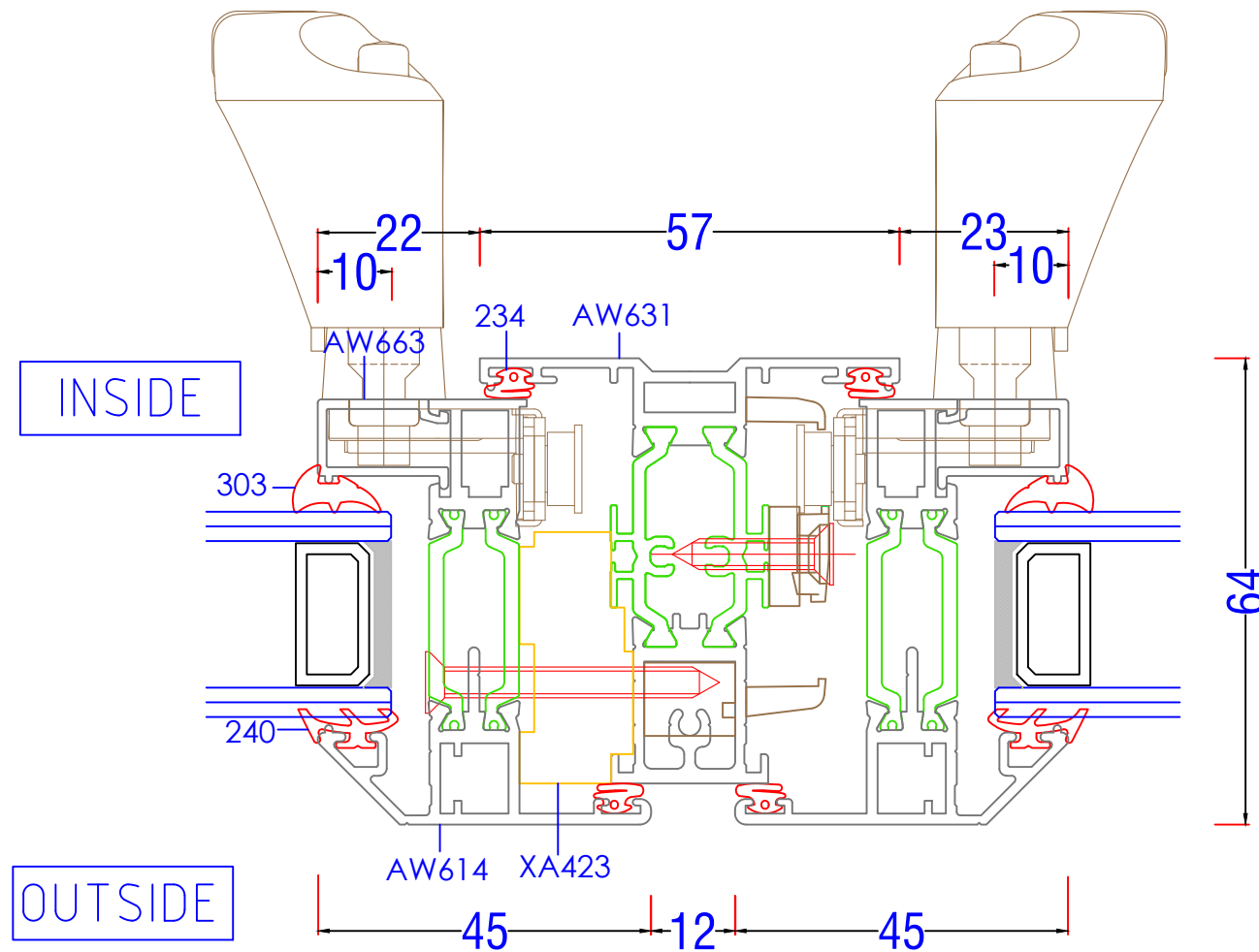
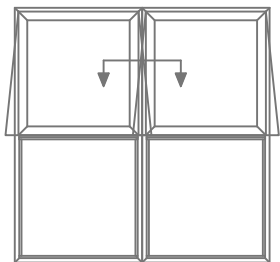
AL UK 58BW ST - Typical Sections

Fixed - Open Mullion



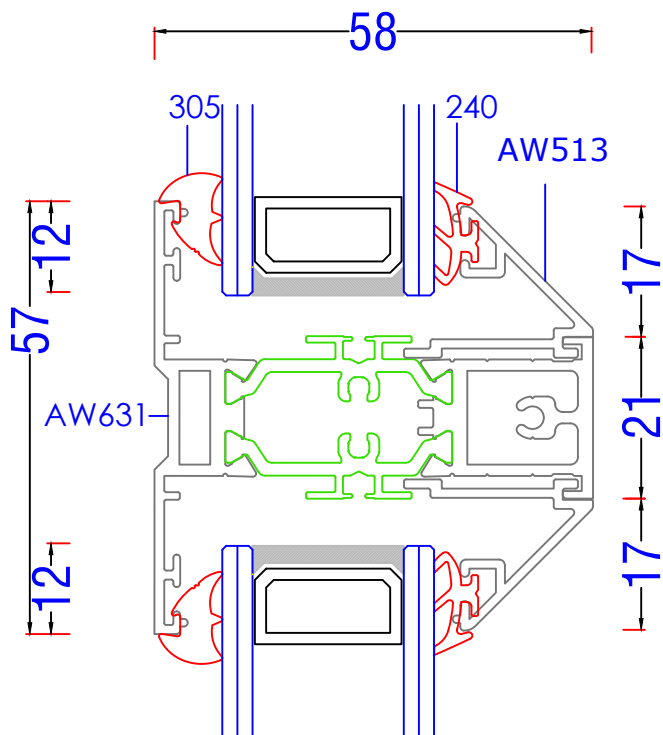
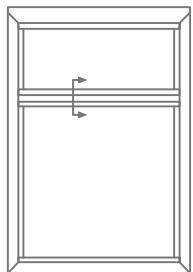
AL UK 58BW ST - Typical Sections

Open - Open Mullion



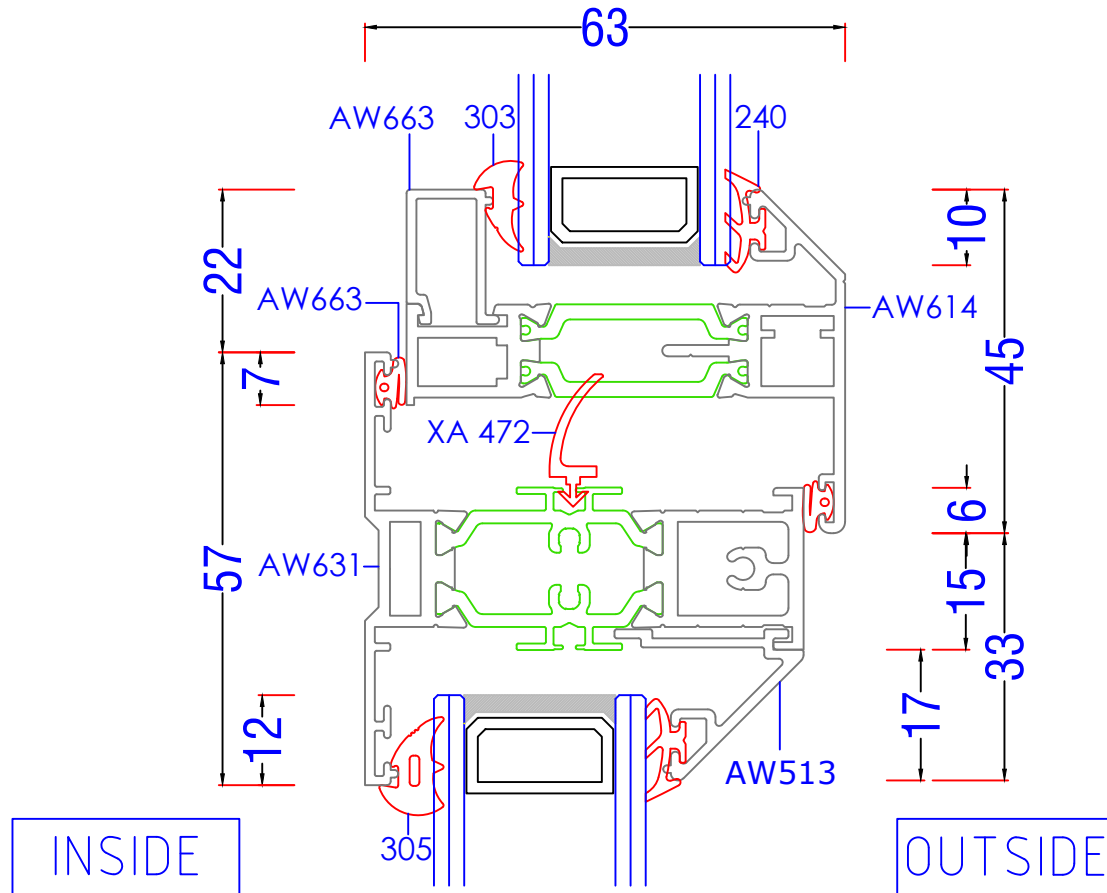
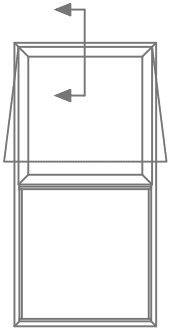
AL UK 58BW ST - Typical Sections

Fixed - Fixed Transom



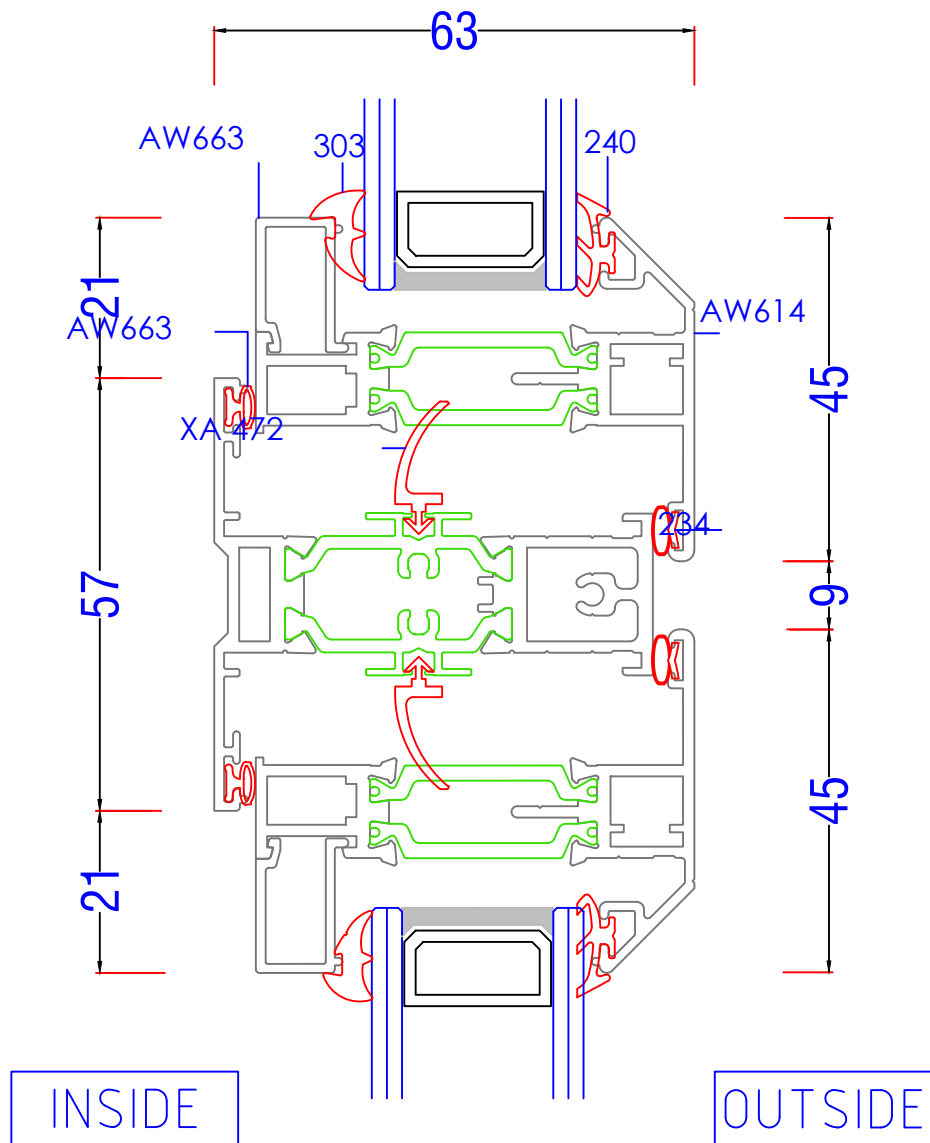
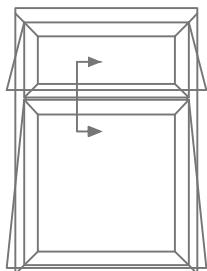
AL UK 58BW ST - Typical Sections

Fixed - Open Transom



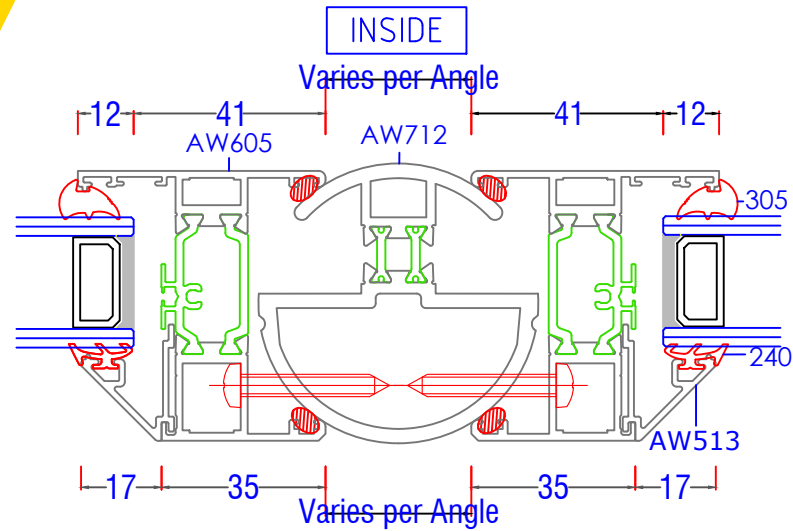
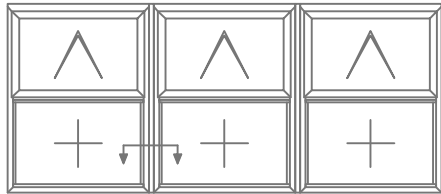
AL UK 58BW ST - Typical Sections

Open - Open Transom

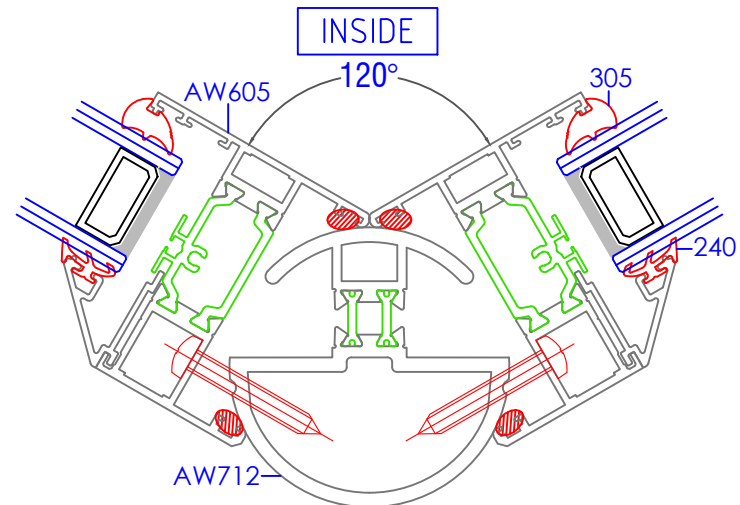


AL UK 58BW ST - Typical Sections

90° to 120° Circular Baypole



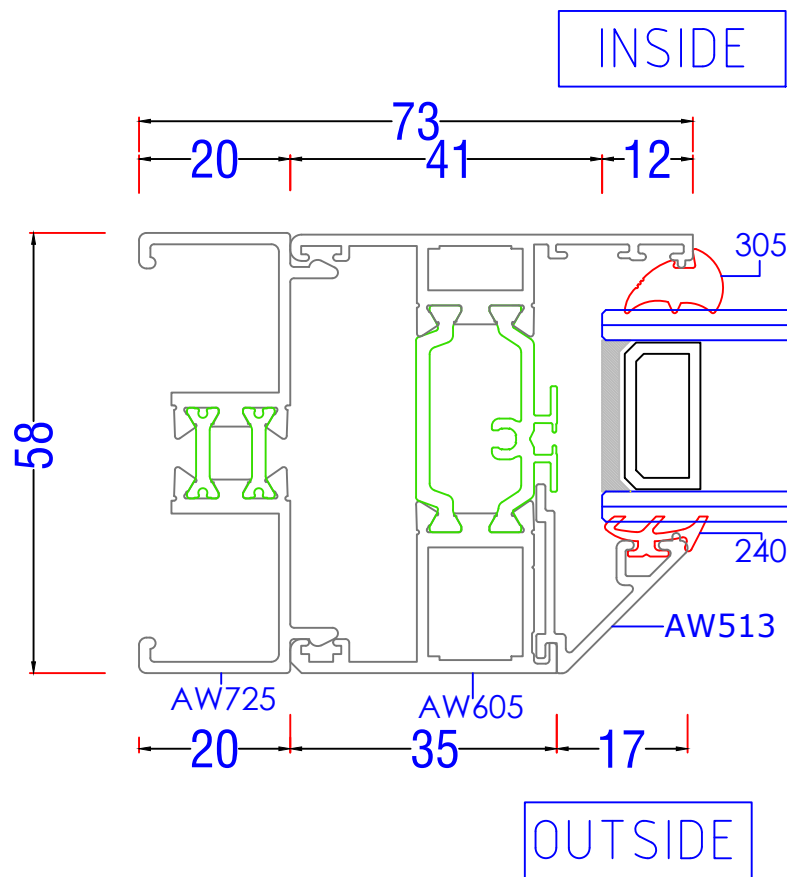
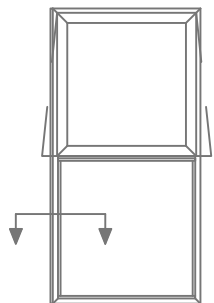
Fixing Ref Ø4.2mm x 35mm Pozi pan S/S Self tapping screw @ 300mm centres



Fixing Ref Ø4.2mm x 35mm Pozi pan S/S Self tapping screw @ 300mm centres

AL UK 58BW ST - Typical Sections

Extender Profile





Arkay Windows is a specialist large-scale fabricator with over 30 years experience based in Watford, North West London.

Through growth built on putting our customers first, we have risen to supply some of the country's biggest retail companies, contractors and commercial installers.



Watford: 01923 803923
London: 020 8889 6821

sales@arkaywindows.com
www.arkaywindows.com

