

Hinged Door

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Hinged Door

Technical Manual History

The table below is a summary of this manual's update history. Contact Capral for details of past updates.

RELEASE DATE	UPDATE SUMMARY
01-05-2015	Stand alone manual first release, 419TB 150mm added
01-10-2017 to 01-12-2017	Formulas & machining updated, extrusion and components replaced & updated.
01-07-2018	Extrusions replaced, components updated, euro bar details updated
01-12-2018	Flush bolt replaced
01-03-2019	Hinge removed & 100mm frame added.
01-08-2023	Cyclonic Test Report Summary added

The table below shows the details of the latest manual update.

MANUAL RELEASE – 01-04-2025	
DESCRIPTION	AFFECTED PAGES
Door Stop width formulas updated	8.1

Hinged Door

Features & Benefits



- 46mm Door Panel
 - Double glazing from 6mm to 32mm
 - Exclusively designed components to improve the system's performance and function
 - NATA tested to Australian Standard (AS2047)
 - Compatible with
 - Futureline 440TB Framing System
 - Futureline 419TB Framing System
 - Window Energy Rating Scheme (WERS) data available; www.wers.net
 - Serviceability Limit State (SLS)
 - Pressures up to 1500Pa*
 Ultimate Limit State (ULS)
 - Pressures up to 2500Pa*
 Water Performance up to 600Pa*
 - Acoustic Sound Insulation Rating (Rw (C;Ctr)) up to 36 (-2;2)*
- * Refer to Section 2 for specific details and limitations

Hinged Door

Product Specifications

SIZE LIMITATIONS

Panel Height		Panel Width	
Minimum:	2100mm	Minimum:	750mm
Maximum:	2700mm	Maximum:	1000mm
Panel Weight			
Maximum:	115kg		

NOTE: Refer to the information on the following page & Span Tables to check the maximum sizes that can be achieved for the assigned performance requirements of the installation.

SERVICEABILITY PRESSURE & WATER PERFORMANCE

The Serviceability Pressures listed in the Span Tables have not been limited by a water performance. Where water performance is necessary the product should be limited to the following maximum water ratings or serviceability pressures:

Configuration	Sill	Transom	Max. Water Rating (Pa)	Max. Serviceability Pressure (Pa) (Max. Water Rating / 30%)
Hinged Door	EP2366	-	604	2013

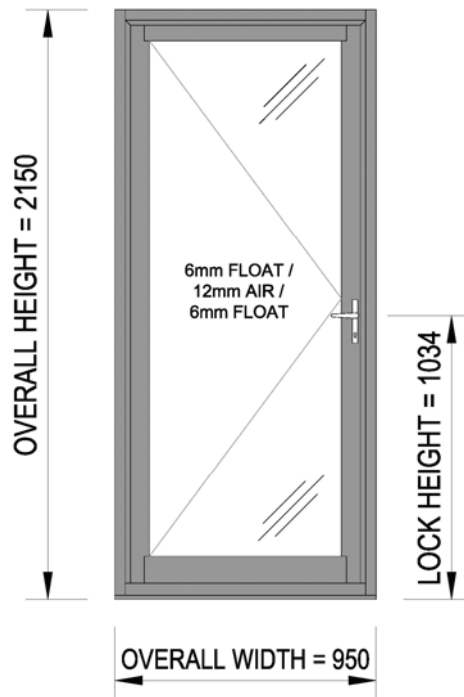
Note: The use of a standard Subsill has been assumed for the Water Performance Ratings listed above.

Test Report Summary

STRUCTURAL & WATER - TEST REPORT NUMBER: C013-042

Performed by: Capral Mechanical Test Laboratory, Victoria – August, 2013

Test Drawing Number: 31-674



Configuration: Hinged Door – Single Point Lock
Glass: 6mm Float / 12mm Air / 6mm Float Glass
Bead / Glazing: External Bead / Glazing Wedge

Approved to Standard: AS4420-1996 (as called up by AS2047-1999)

DEFLECTION TEST RESULTS:

Lock Stile: ETB0010
(1046mm Span)

+ Test Pressure
595Pa
(Span/1271)

- Test Pressure
509Pa
(Span/195)

AIR INFILTRATION RESULTS:

1.32 L/s.m² @ 75Pa Positive Test Pressure
3.20 L/s.m² @ 75Pa Negative Test Pressure

Achieved Non Air Conditioned Rating

WATER PENETRATION RESULTS:

Sill : ETB0017 / EP2366

604Pa Pressure for a period of 15mins

ULTIMATE STRENGTH RESULTS:

+ Test Pressure
1109Pa

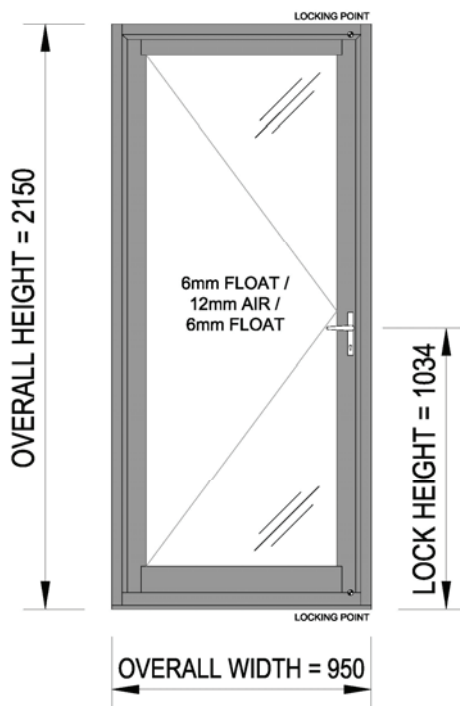
- Test Pressure
1100Pa

Test Report Summary

STRUCTURAL & AIR - TEST REPORT NUMBER: C013-043

Performed by: Capral Mechanical Test Laboratory, Victoria – August, 2013

Test Drawing Number: 31-676A



Configuration: Hinged Door – Three Point Lock
Glass: 6mm Float / 12mm Air / 6mm Float Glass
Bead / Glazing: External Bead / Glazing Wedge

Approved to Standard: AS4420-1996 (as called up by AS2047-1999)

DEFLECTION TEST RESULTS:

Lock Stile: ETB0010
(1046mm Span)

+ Test Pressure
1507Pa
(Span/875)

- Test Pressure
1501Pa
(Span/679)

AIR INFILTRATION RESULTS:

0.33 L/s.m² @ 75Pa Positive Test Pressure
0.98 L/s.m² @ 75Pa Negative Test Pressure

Achieved Air Conditioned Rating

ULTIMATE STRENGTH RESULTS:

+ Test Pressure
2506Pa

- Test Pressure
2514Pa

Test Report Summary

CYCLONIC - TEST REPORT NUMBER: AZT0428.22

Test Window: Futureline 629TB frame with Hinged Door
6mm Toughened, 12mm Air gap, 12.4mm Stormshield
Wet glazed
2100x900

Test Laboratory: Azuma Design on 17/08/2022

Physical Performance

Approved to: AS1170.2 – 2011 (Clause 2.5.8 and 5.3.2)
QLD Government: Design Guidelines for Australian
Public Cyclone Shelters, August Section 3.2(b)

Test 1: Debris Test 'A' (4kg – 100mm x 50mm Timber)

Result: Pass

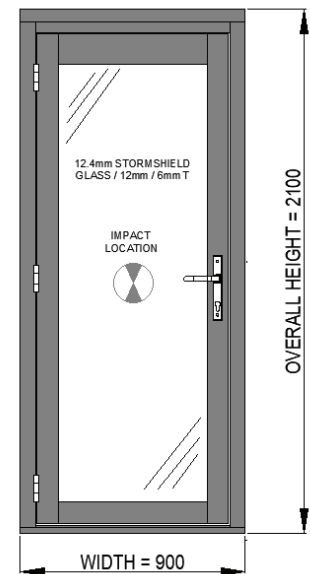
Impact Speed: 38m/sec

Impact Energy: 2888 Joules

Test 2: Debris Test 'B' (2g – 8mm Diameter Steel Balls – 5 impacts in random locations)

Result: Pass

Impact Speed: 38m/sec

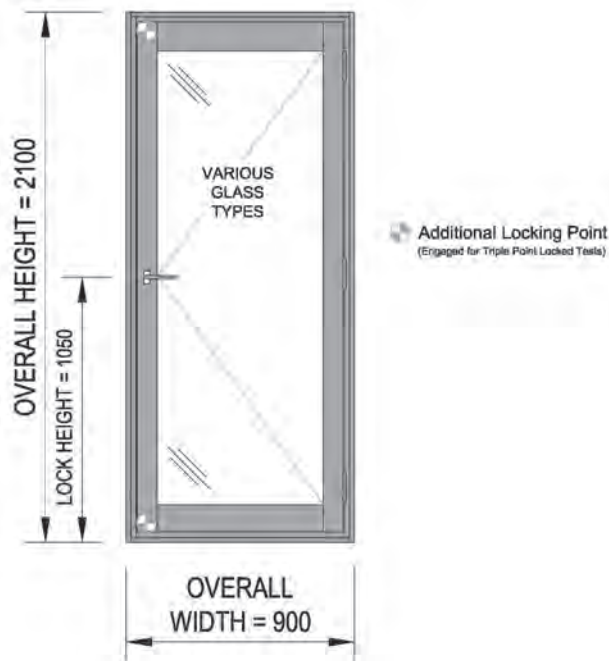


Hinged Door

Test Report Summary

ACOUSTIC

Performed by: Commonwealth Scientific and Industrial Research Organisation (CSIRO), Clayton Victoria – November, 2017



Configuration: D

Framing System: 46D Futureline Open Out Hinged Door

Approved to Standard: AS1191-2002 & AS1276.1-1999

TEST REPORT NUMBER: TL620-53-1

Test Drawing Number: 31-938

TEST SAMPLE DETAILS:

Glass: 6mm Clear Float / 16mm Argon / 6mm Clear Float
 Locking: Single Point Locked
 Glazing: Silicone Glazing
 Door Seals: Buffer Seal (302271)

SOUND INSULATION RATING:

Rw (C;Ctr): 29 (-2;-3)

TEST REPORT NUMBER: TL620-52-1

Test Drawing Number: 31-938

TEST SAMPLE DETAILS:

Glass: 6mm Clear Float / 16mm Argon / 6mm Clear Float
 Locking: Triple Point Locked
 Glazing: Silicone Glazing
 Door Seals: Buffer Seal (302271)

SOUND INSULATION RATING:

Rw (C;Ctr): 33 (-1;-3)

Test Report Summary

TEST REPORT NUMBER: TL620-51-1

Test Drawing Number: 31-938

TEST SAMPLE DETAILS:

Glass: 6mm Clear Float / 16mm Argon / 6.5mm Clear HUSH Laminate
Locking: Single Point Locked
Glazing: Silicone Glazing
Door Seals: Buffer Seal (302271)

SOUND INSULATION RATING:

Rw (C;Ctr): 36 (-2;-3)

TEST REPORT NUMBER: TL620-50-1

Test Drawing Number: 31-938

TEST SAMPLE DETAILS:

Glass: 6mm Clear Float / 16mm Argon / 10.38mm Clear Laminate
Locking: Single Point Locked
Glazing: Silicone Glazing
Door Seals: Buffer Seal (302271)

SOUND INSULATION RATING:

Rw (C;Ctr): 32 (-1;-2)

TEST REPORT NUMBER: TL620-48-1

Test Drawing Number: 31-938

TEST SAMPLE DETAILS:

Glass: 6mm Clear Float / 16mm Argon / 10.5mm Clear HUSH Laminate
Locking: Single Point Locked
Glazing: Silicone Glazing
Door Seals: Buffer Seal (302271)

SOUND INSULATION RATING:

Rw (C;Ctr): 34 (-1;-2)

TEST REPORT NUMBER: TL620-47-1

Test Drawing Number: 31-938

TEST SAMPLE DETAILS:

Glass: 6mm Clear Float / 16mm Argon / 10.5mm Clear HUSH Laminate
Locking: Triple Point Locked
Glazing: Silicone Glazing
Door Seals: Buffer Seal (302271)

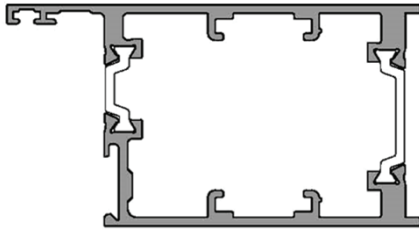
SOUND INSULATION RATING:

Rw (C;Ctr): 36 (-2;-2)

Hinged Door

Span Table

LOCK STILE (SINGLE POINT LOCK) - ETB0010



Note:

Serviceability pressures have been limited to a maximum pressure of 600Pa.

Serviceability pressures have not been limited by a water performance. Where water performance is necessary, refer to Product Specifications page.

L/250 is the Deflection ratio applicable for Sliding Doors & L/100 is the Deflection ratio applicable for all other doors.

This table has been based on a lock height of 1050mm.

Door Height (mm)		Maximum Design Pressure (kPa)						
2700	S (L/250)	-	-	-	-	-	-	-
	S (L/100)	0.600	0.600	0.600	0.597	0.564	0.534	0.507
	U	1.500	1.500	1.500	1.500	1.470	1.392	1.323
2600	S (L/250)	-	-	-	-	-	-	-
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.500	1.500	1.500	1.500	1.500	1.500	1.499
2500	S (L/250)	0.427	-	-	-	-	-	-
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.500	1.500	1.500	1.500	1.500	1.500	1.500
2400	S (L/250)	0.529	0.494	0.463	0.436	0.412	-	-
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.500	1.500	1.500	1.500	1.500	1.500	1.500
2300	S (L/250)	0.600	0.600	0.584	0.549	0.519	0.491	0.467
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.500	1.500	1.500	1.500	1.500	1.500	1.500
2200	S (L/250)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.500	1.500	1.500	1.500	1.500	1.500	1.500
2100	S (L/250)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.500	1.500	1.500	1.500	1.500	1.500	1.500
Door Width (mm)		700	750	800	850	900	950	1000

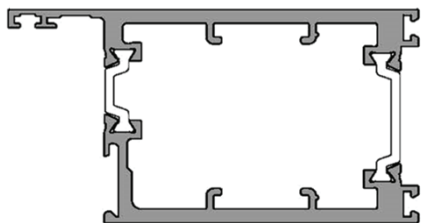
LEGEND: S = Serviceability Pressure, U = Ultimate Pressure

NOTE: This table is based on a combination of approved AS2047 testing data and theoretical section properties.

A maximum stress level of 110MPa has been applied when generating this table.

Span Table

SMALL PIVOT STILE (SINGLE POINT LOCK) - ETB0020



Note:

Serviceability pressures have been limited to a maximum pressure of 600Pa.

Serviceability pressures have not been limited by a water performance. Where water performance is necessary, refer to Product Specifications page.

L/250 is the Deflection ratio applicable for Sliding Doors & L/100 is the Deflection ratio applicable for all other doors.

This table has been based on a lock height of 1050mm.

Door Height (mm)		Maximum Design Pressure (kPa)						
2700	S (L/250)	-	-	-	-	-	-	-
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.500	1.500	1.500	1.500	1.500	1.500	1.500
2600	S (L/250)	0.438	0.409	-	-	-	-	-
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.500	1.500	1.500	1.500	1.500	1.500	1.500
2500	S (L/250)	0.535	0.499	0.468	0.440	0.416	-	-
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.500	1.500	1.500	1.500	1.500	1.500	1.500
2400	S (L/250)	0.600	0.600	0.580	0.546	0.515	0.488	0.464
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.500	1.500	1.500	1.500	1.500	1.500	1.500
2300	S (L/250)	0.600	0.600	0.600	0.600	0.600	0.600	0.584
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.500	1.500	1.500	1.500	1.500	1.500	1.500
2200	S (L/250)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.500	1.500	1.500	1.500	1.500	1.500	1.500
2100	S (L/250)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.500	1.500	1.500	1.500	1.500	1.500	1.500
Door Width (mm)		700	750	800	850	900	950	1000

LEGEND: S = Serviceability Pressure, U = Ultimate Pressure

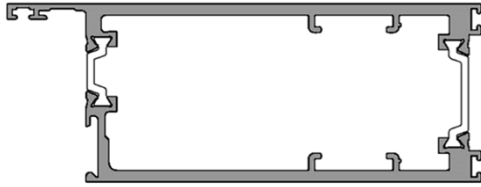
NOTE: This table is based on theoretical section properties not on approved AS2047 testing data.

A maximum stress level of 110MPa has been applied when generating this table.

Hinged Door

Span Table

LARGE PIVOT STILE (SINGLE POINT LOCK) - ETB0021



Note:

Serviceability pressures have been limited to a maximum pressure of 600Pa.

Serviceability pressures have not been limited by a water performance. Where water performance is necessary, refer to Product Specifications page.

L/250 is the Deflection ratio applicable for Sliding Doors & L/100 is the Deflection ratio applicable for all other doors.

This table has been based on a lock height of 1050mm.

Door Height (mm)		Maximum Design Pressure (kPa)						
2700	S (L/250)	0.501	0.468	0.438	0.413	-	-	-
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.500	1.500	1.500	1.500	1.500	1.500	1.500
2600	S (L/250)	0.600	0.564	0.529	0.498	0.470	0.445	0.423
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.500	1.500	1.500	1.500	1.500	1.500	1.500
2500	S (L/250)	0.600	0.600	0.600	0.600	0.574	0.544	0.517
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.500	1.500	1.500	1.500	1.500	1.500	1.500
2400	S (L/250)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.500	1.500	1.500	1.500	1.500	1.500	1.500
2300	S (L/250)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.500	1.500	1.500	1.500	1.500	1.500	1.500
2200	S (L/250)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.500	1.500	1.500	1.500	1.500	1.500	1.500
2100	S (L/250)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.500	1.500	1.500	1.500	1.500	1.500	1.500
Door Width (mm)		700	750	800	850	900	950	1000

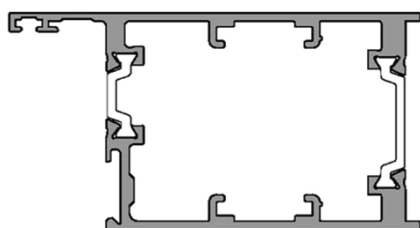
LEGEND: S = Serviceability Pressure, U = Ultimate Pressure

NOTE: This table is based on theoretical section properties not on approved AS2047 testing data.

A maximum stress level of 110MPa has been applied when generating this table.

Span Table

LOCK STILE (3-POINT LOCK) - ETB0010
SMALL & LARGE PIVOT STILES - ETB0020 & ETB0021 SIMILAR



Note:

Serviceability pressures have been limited to a maximum pressure of 1500Pa.

Serviceability pressures have not been limited by a water performance. Where water performance is necessary, refer to Product Specifications page.

L/250 is the Deflection ratio applicable for Sliding Doors & L/100 is the Deflection ratio applicable for all other doors.

This table has been based on a 4 point lock height of 1050mm.

Door Height (mm)		Maximum Design Pressure (kPa)						
2700	S (L/250)	1.500	1.500	1.500	1.500	1.500	1.500	1.500
	S (L/100)	1.500	1.500	1.500	1.500	1.500	1.500	1.500
	U	2.500	2.500	2.500	2.500	2.500	2.500	2.500
2600	S (L/250)	1.500	1.500	1.500	1.500	1.500	1.500	1.500
	S (L/100)	1.500	1.500	1.500	1.500	1.500	1.500	1.500
	U	2.500	2.500	2.500	2.500	2.500	2.500	2.500
2500	S (L/250)	1.500	1.500	1.500	1.500	1.500	1.500	1.500
	S (L/100)	1.500	1.500	1.500	1.500	1.500	1.500	1.500
	U	2.500	2.500	2.500	2.500	2.500	2.500	2.500
2400	S (L/250)	1.500	1.500	1.500	1.500	1.500	1.500	1.500
	S (L/100)	1.500	1.500	1.500	1.500	1.500	1.500	1.500
	U	2.500	2.500	2.500	2.500	2.500	2.500	2.500
2300	S (L/250)	1.500	1.500	1.500	1.500	1.500	1.500	1.500
	S (L/100)	1.500	1.500	1.500	1.500	1.500	1.500	1.500
	U	2.500	2.500	2.500	2.500	2.500	2.500	2.500
2200	S (L/250)	1.500	1.500	1.500	1.500	1.500	1.500	1.500
	S (L/100)	1.500	1.500	1.500	1.500	1.500	1.500	1.500
	U	2.500	2.500	2.500	2.500	2.500	2.500	2.500
2100	S (L/250)	1.500	1.500	1.500	1.500	1.500	1.500	1.500
	S (L/100)	1.500	1.500	1.500	1.500	1.500	1.500	1.500
	U	2.500	2.500	2.500	2.500	2.500	2.500	2.500
Door Width (mm)		700	750	800	850	900	950	1000

LEGEND: S = Serviceability Pressure, U = Ultimate Pressure

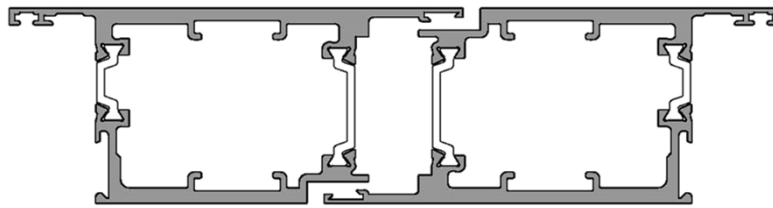
NOTE: This table is based on a combination of approved AS2047 testing data and theoretical section properties.

A maximum stress level of 110MPa has been applied when generating this table.

Hinged Door

Span Table

FRENCH DOOR MEETING STILES (SINGLE POINT LOCK) - ETB0022 & ETB0023



Note:

Serviceability pressures have been limited to a maximum pressure of 600Pa.

Serviceability pressures have not been limited by a water performance. Where water performance is necessary, refer to Product Specifications page.

L/250 is the Deflection ratio applicable for Sliding Doors & L/100 is the Deflection ratio applicable for all other doors.

This table has been based on a lock height of 1050mm.

Door Height (mm)		Maximum Design Pressure (kPa)						
2700	S (L/250)	-	-	-	-	-	-	-
	S (L/100)	0.600	0.600	0.600	0.600	0.596	0.564	0.536
	U	1.094	1.021	0.957	0.901	0.851	0.806	0.766
2600	S (L/250)	-	-	-	-	-	-	-
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.179	1.101	1.032	0.971	0.917	0.869	0.826
2500	S (L/250)	-	-	-	-	-	-	-
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.276	1.191	1.116	1.051	0.992	0.940	0.893
2400	S (L/250)	0.436	0.407	-	-	-	-	-
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.384	1.292	1.211	1.140	1.077	1.020	0.969
2300	S (L/250)	0.496	0.463	0.434	0.408	-	-	-
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.500	1.407	1.319	1.241	1.172	1.110	1.055
2200	S (L/250)	0.566	0.529	0.496	0.466	0.441	0.417	-
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.500	1.500	1.441	1.357	1.281	1.214	1.153
2100	S (L/250)	0.600	0.600	0.570	0.536	0.507	0.480	0.456
	S (L/100)	0.600	0.600	0.600	0.600	0.600	0.600	0.600
	U	1.500	1.500	1.500	1.489	1.406	1.332	1.265
Door Width (mm)		700	750	800	850	900	950	1000

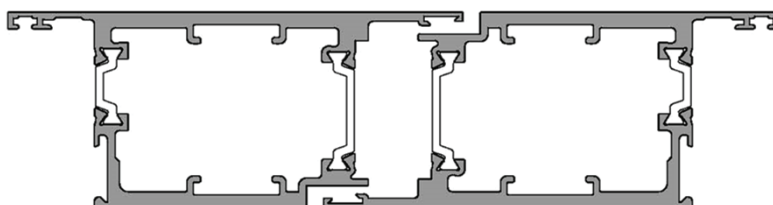
LEGEND: S = Serviceability Pressure, U = Ultimate Pressure

NOTE: This table is based on theoretical section properties not on approved AS2047 testing data.

A maximum stress level of 110MPa has been applied when generating this table.

Span Table

FRENCH DOOR MEETING STILES (3-POINT LOCK) - ETB0022 & ETB0023



Note:

Serviceability pressures have been limited to a maximum pressure of 1500Pa.

Serviceability pressures have not been limited by a water performance. Where water performance is necessary, refer to Product Specifications page.

L/250 is the Deflection ratio applicable for Sliding Doors & L/100 is the Deflection ratio applicable for all other doors.

This table has been based on a 4 point lock height of 1050mm.

Door Height (mm)		Maximum Design Pressure (kPa)						
2700	S (L/250)	0.814	0.760	0.712	0.670	0.633	0.600	0.570
	S (L/100)	1.500	1.500	1.500	1.500	1.500	1.499	1.424
	U	2.500	2.500	2.500	2.500	2.500	2.470	2.347
2600	S (L/250)	0.912	0.851	0.798	0.751	0.709	0.672	0.638
	S (L/100)	1.500	1.500	1.500	1.500	1.500	1.500	1.500
	U	2.500	2.500	2.500	2.500	2.500	2.500	2.500
2500	S (L/250)	1.025	0.957	0.897	0.844	0.797	0.756	0.718
	S (L/100)	1.500	1.500	1.500	1.500	1.500	1.500	1.500
	U	2.500	2.500	2.500	2.500	2.500	2.500	2.500
2400	S (L/250)	1.159	1.082	1.014	0.954	0.901	0.854	0.811
	S (L/100)	1.500	1.500	1.500	1.500	1.500	1.500	1.500
	U	2.500	2.500	2.500	2.500	2.500	2.500	2.500
2300	S (L/250)	1.317	1.229	1.152	1.084	1.024	0.970	0.922
	S (L/100)	1.500	1.500	1.500	1.500	1.500	1.500	1.500
	U	2.500	2.500	2.500	2.500	2.500	2.500	2.500
2200	S (L/250)	1.500	1.404	1.317	1.239	1.170	1.109	1.053
	S (L/100)	1.500	1.500	1.500	1.500	1.500	1.500	1.500
	U	2.500	2.500	2.500	2.500	2.500	2.500	2.500
2100	S (L/250)	1.500	1.500	1.500	1.425	1.346	1.275	1.211
	S (L/100)	1.500	1.500	1.500	1.500	1.500	1.500	1.500
	U	2.500	2.500	2.500	2.500	2.500	2.500	2.500
Door Width (mm)		700	750	800	850	900	950	1000

LEGEND: S = Serviceability Pressure, U = Ultimate Pressure

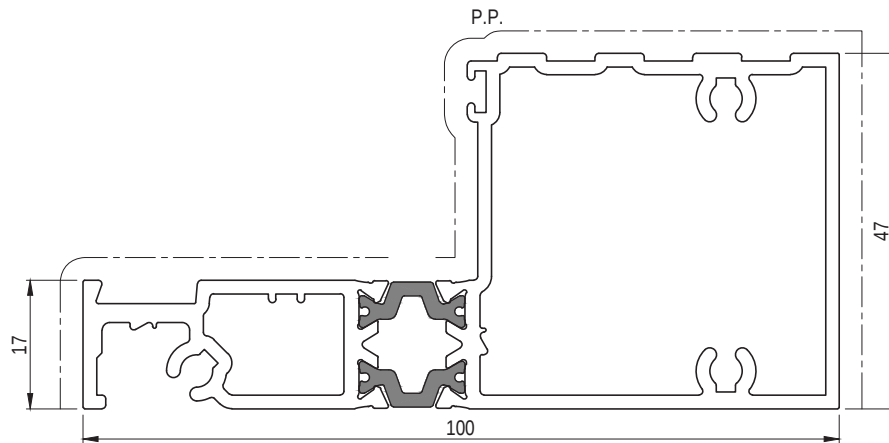
NOTE: This table is based on theoretical section properties not on approved AS2047 testing data.

A maximum stress level of 110MPa has been applied when generating this table.

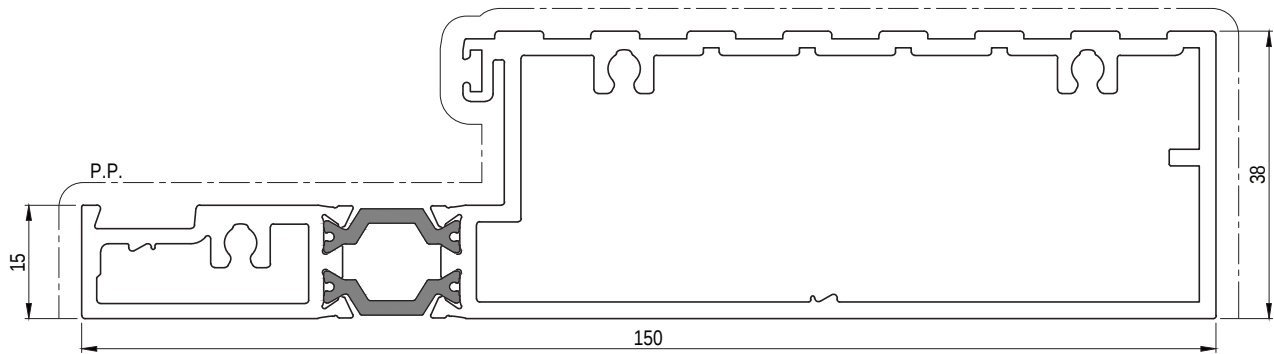
Hinged Door

Extrusions

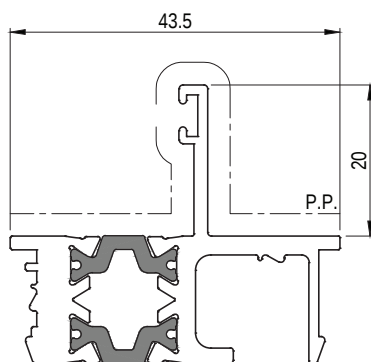
Scale 1:1



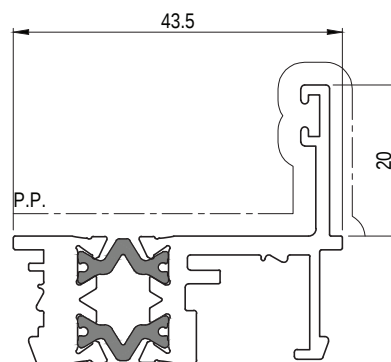
ETB0024
100mm THRESHOLD
Paint Perimeter: 210mm
Anodised Perimeter: 418mm



ETB0208
150mm THRESHOLD
Paint Perimeter: 258mm
Anodised Perimeter: 542mm

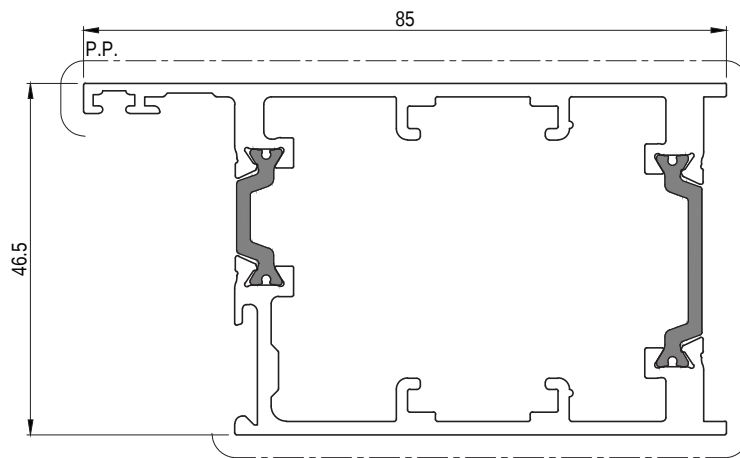


ETB0006
440TB DOOR ADAPTOR
Paint Perimeter: 100mm
Anodised Perimeter: 207mm

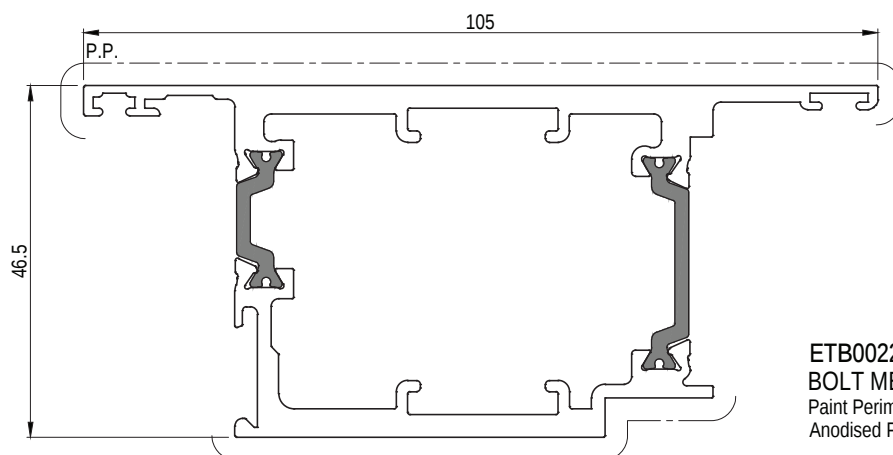


ETB0209
419TB SASH ADAPTOR
Paint Perimeter: 100mm
Anodised Perimeter: 289mm

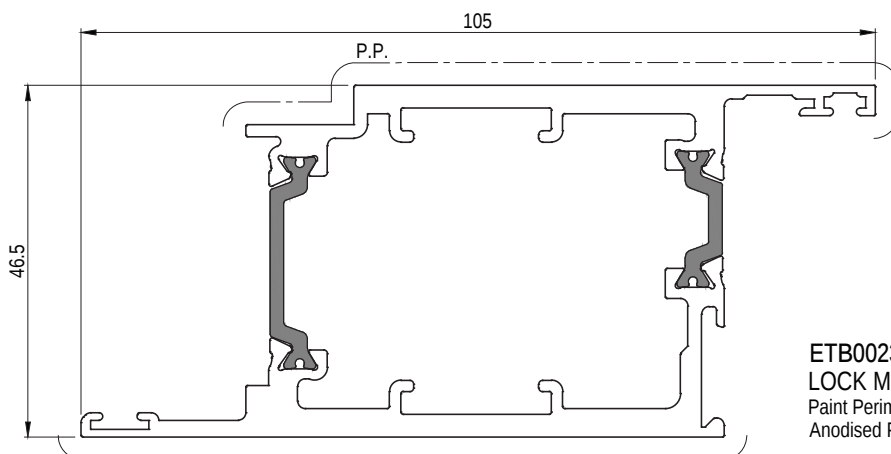
Please read in conjunction with Important Conditions – Index (also available on Capral website)



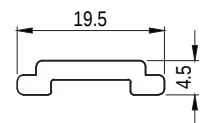
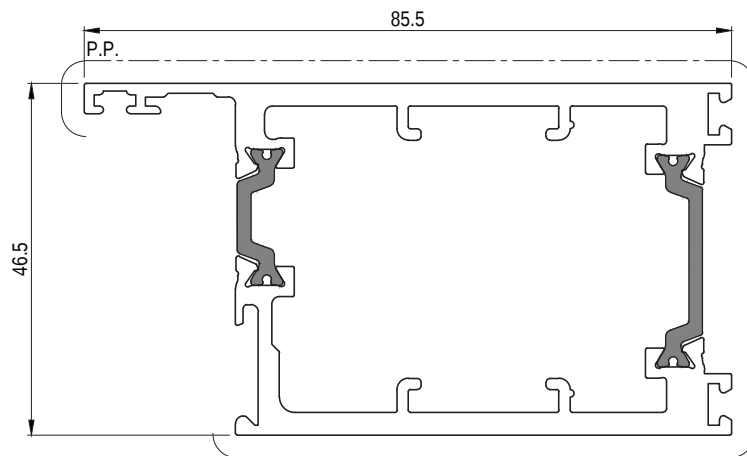
ETB0010
HINGE STILE
Paint Perimeter: 208mm
Anodised Perimeter: 269mm



ETB0022
BOLT MEETING STILE
Paint Perimeter: 308mm
Anodised Perimeter: 351mm

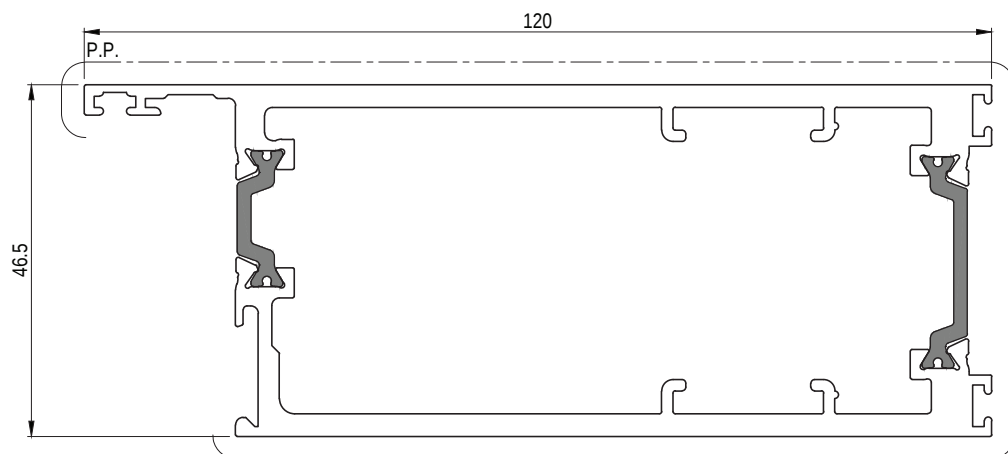


ETB0023
LOCK MEETING STILE
Paint Perimeter: 309mm
Anodised Perimeter: 325mm

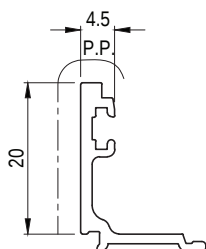


EPD0021
EURO BAR
(CLEAR ANODISED ONLY)
Anodised Perimeter : 100mm

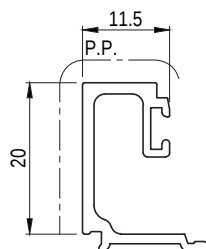
ETB0020
PIVOT STILE
Paint Perimeter: 188mm
Anodised Perimeter: 351mm



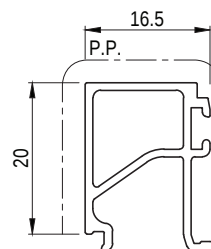
ETB0021
LARGE PIVOT STILE
Paint Perimeter: 248mm
Anodised Perimeter: 358mm



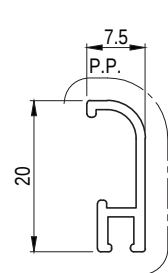
ETB0007
4.5mm BEAD
Paint Perimeter: 100mm
Anodised Perimeter: 100mm



ETB0008
11.5mm BEAD
Paint Perimeter: 100mm
Anodised Perimeter: 110mm



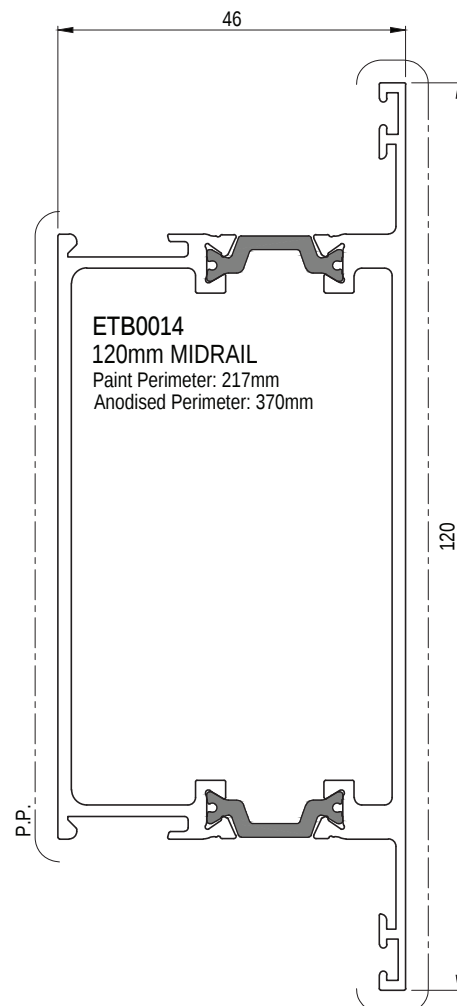
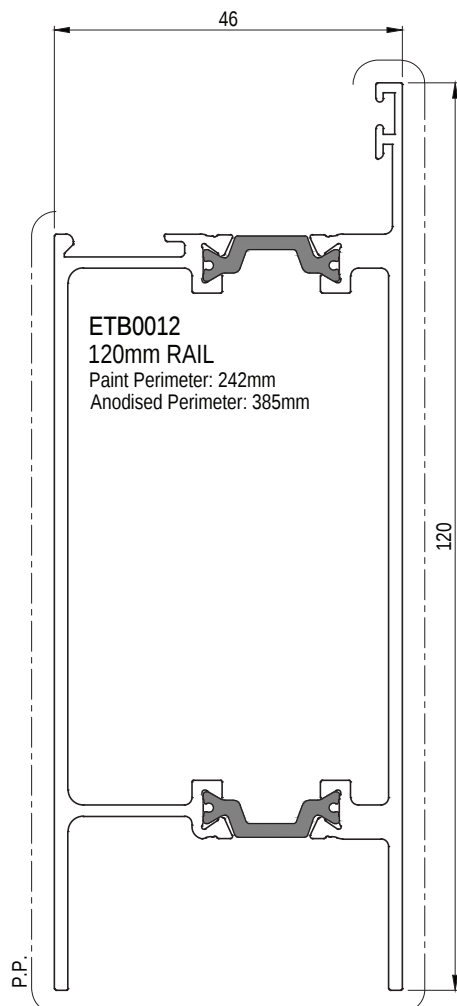
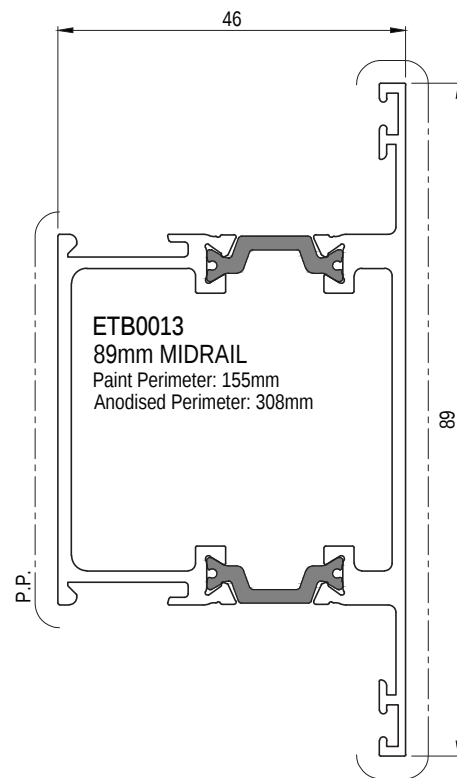
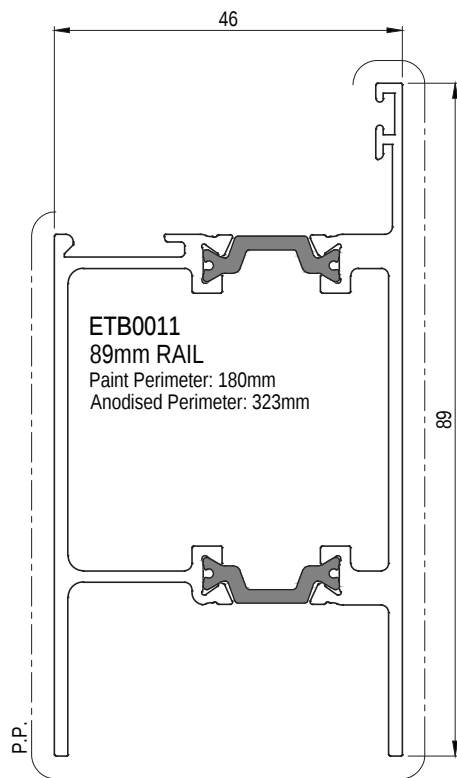
ETB0009
16.5mm BEAD
Paint Perimeter: 100mm
Anodised Perimeter: 116mm



EPD0284
F/D WEATHER STRIP
Paint Perimeter: 100mm
Anodised Perimeter: 100mm

Extrusions

Scale 1:1



Please read in conjunction with Important Conditions – Index (also available on Capral website)

Hinged Door

Extrusion Data

Extrusion	Description	Structural Properties *			
		Ixx (10 ³ mm ⁴)	Iyy (10 ³ mm ⁴)	Zxx (10 ³ mm ³)	Zyy (10 ³ mm ³)
ETB0006	440TB Door Adaptor *	20.796	43.082	0.809	1.728
ETB0007	4.5mm Bead	3.679	1.238	0.286	0.097
ETB0008	11.5mm Bead	5.270	1.691	0.450	0.150
ETB0009	16.5mm Bead	4.206	3.050	0.331	0.338
ETB0010	Hinge Stile *	205.615	326.846	8.185	6.553
ETB0011	89mm Rail *	170.889	255.011	3.679	9.660
ETB0012	120mm Rail *	689.010	226.179	11.051	8.750
ETB0013	89mm Midrail *	217.386	146.169	4.885	5.239
ETB0014	120mm Midrail *	610.520	202.650	10.175	7.486
ETB0020	Pivot Stile *	257.262	379.208	10.373	7.481
ETB0021	Large Pivot Stile *	355.295	1083.135	14.514	15.785
ETB0022	Bolt Meeting Stile *	257.818	414.116	4.719	15.281
ETB0023	Lock Meeting Stile *	269.019	414.479	4.925	17.248
ETB0024	100mm Threshold *	180.535	644.574	6.040	11.999
ETB0208	150mm Threshold *	207.868	2057.593	9.570	27.398
ETB0209	419TB Door Adaptor *	21.057	58.374	0.827	2.534
EPD0021	Euro Bar (Clear Anodised)	0.083	1.832	0.033	0.188

NOTE: The structural properties listed above are using the orientations as listed within the extrusion pages.

* Indicates the effective I value based on 3000mm

** Indicates the effective I value based on 1800mm

Hinged Door

Components

Not To Scale

302271
DOOR STOP
250m ROLL - SC
(M027834)



315691
MEETING STILE SEAL
200m ROLL - CO-EXTRUDED
(SC44-2)



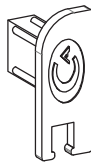
308233
WEATHER STRIP CLIP
4m PRE-PUNCHED
(SPD02012)



301865
POLYPILE 11mm
600m ROLL
(M027377)



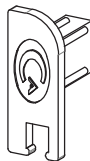
308231
WEATHER STRIP CAP RH
EACH
(SPD02013)



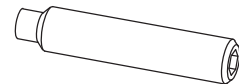
317400
JACKING SCREW FOOT
EACH - BLACK
(SPD04144)



308232
WEATHER STRIP CAP LH
EACH
(SPD02013)



315486
JACKING SCREW
20 PACK - S/STEEL
(SPD03229)



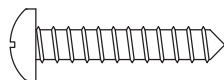
300246
10mm COVER CAP
100 PACK
(M575111)



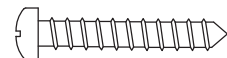
316463
JACKING SCREW RIVNUT
100 PACK
(C9999002)



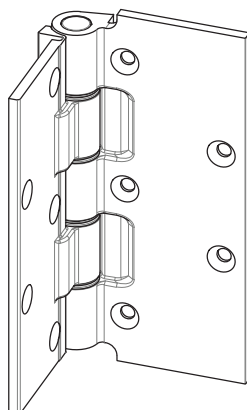
300059
10g x 25mm PAN SCREW
100 PACK
(M028598)



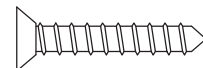
300672
8g x 25mm PAN SCREW
EACH
(M029642)



316473 - BLACK
316474 - SILVER
46D HINGE
EACH
(MA0409016)



300671
8g x 25mm CSK SCREW
200 PACK
(M029622)



310549
6g x 13mm PAN SCREW
EACH
(FSC052)



Please read in conjunction with Important Conditions – Index (also available on Capral website)

Components

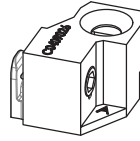
Not To Scale

311202 - CHROME
311203 - WHITE
311204 - BLACK
SURFACE FLUSH
BOLT
EACH
(HL284)

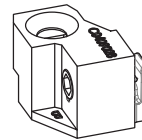


DISCARD ROD & TIP

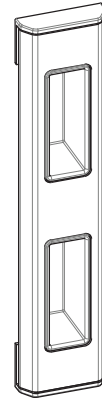
317073
LH FLUSH
BOLT ADAPTOR
EACH
(MA0409011SSTEEL)



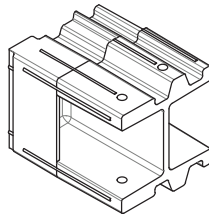
317074
RH FLUSH
BOLT ADAPTOR
EACH
(MA0409012SSTEEL)



317071
MEETING
STILE STRIKE
10 pack
(MA0409007SSTEEL)

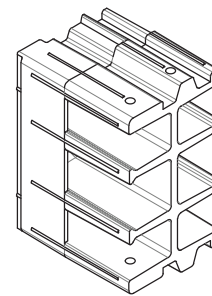


316457
STANDARD SPIGOT
EACH
(MC0409002)



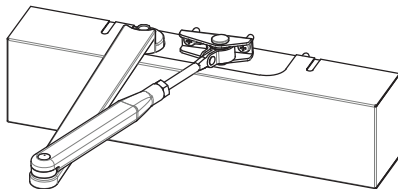
USE WITH ETB0011 & ETB0013

316458
LARGE SPIGOT
EACH
(MC0409001)

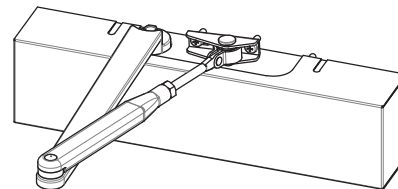


USE WITH ETB0012 & ETB0014

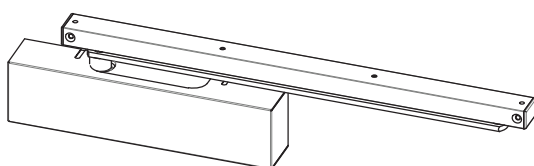
316121
7714 SURFACE MOUNTED ARM DOOR CLOSER
SATIN S/STEEL, MAX 80kg/1100mm WIDTH
EACH
(7714HSSS / SPD03716)



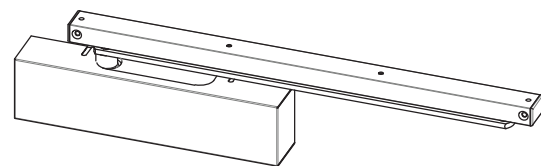
316123
7726 HYDRAULIC ARM DOOR CLOSER
SATIN S/STEEL, MAX 120kg/1400mm WIDTH
EACH
(7726HSSS / SPD03716)



316122
7714 SURFACE MOUNTED SLIDE TRACK DOOR CLOSER
SATIN S/STEEL, MAX 80kg/1100mm WIDTH
EACH
(7714SRSSS / SPD03716)



316124
7726 HYDRAULIC SLIDE TRACK DOOR CLOSER
SATIN S/STEEL, MAX 120kg/1400mm WIDTH
EACH
(7726SRSSS / SPD03716)

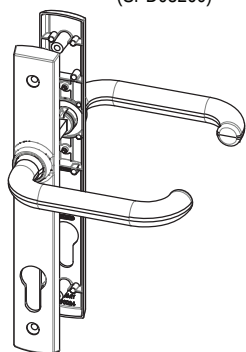


Hinged Door

Components

Not To Scale

315524 - BLACK
315525 - SATIN CHROME
PALLADIUM HANDLE KIT
GIDGEE #37
DOUBLE CYLINDER
EACH
(SPD03260)

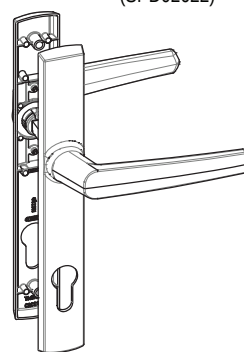


PURCHASE TO ORDER
315527 - WHITE
315526 - SILVER

315528 - BLACK
315529 - SATIN CHROME
PALLADIUM HANDLE KIT
GIDGEE #37
INTERNAL CYLINDER
EACH
(SPD03260)

PURCHASE TO ORDER
315531 - WHITE
315530 - SILVER

313704 - BLACK
315510 - SATIN CHROME
PALLADIUM HANDLE KIT
ARIA #27
DOUBLE CYLINDER
EACH
(SPD02622)

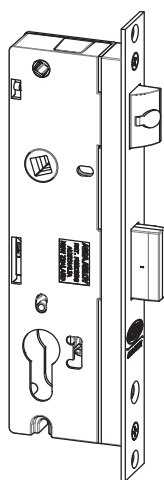


PURCHASE TO ORDER
315511 - WHITE
313706 - SILVER

313746 - BLACK
315605 - SATIN CHROME
PALLADIUM HANDLE KIT
ARIA #27
INTERNAL CYLINDER
EACH
(SPD02622)

PURCHASE TO ORDER
315606 - WHITE
313747 - SILVER

316483
40mm BACKSET
OPTIMUM LOCK
EACH
(MOP40/4SBS/SSAS)



316486
OPTIMUM 300mm
FACE PLATE
EACH
(MPQ70185)



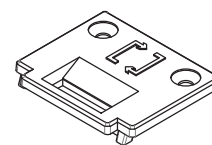
316455
4-POINT EURO
LOCK ADAPTOR
EACH
(MA0413025)



316456
EURO BOLT TIP
EACH
(MA0413018)

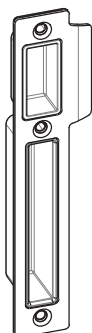


316453
BOLT STRIKE
EACH
(MC0113021)

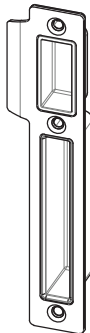


USE WITH THRESHOLDS

307747
CENTRAL STRIKE RH
EACH
(SPD01472)

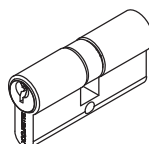


307633
CENTRAL STRIKE LH
EACH
(SPD01472)



316116 - KEYED TO DIFFER
315671 - KEY #J31
LOCK CYLINDER 76mm
5 PACK
(P33235)

PURCHASE TO ORDER
315672 - KEY #J32
315673 - KEY #J33
315674 - KEY #J34
315675 - KEY #J35

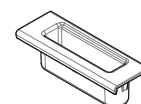


316462
U NUT FASTENER
100 PACK
(MC0409025)



USE WITH NON STOCKED M5 x 13mm CSK
SCREW TO REPLACE SCREWS FOR LOCK FACE
PLATE & FLUSH BOLT

316454
BOLT STRIKE CAP
EACH
(MC0413049)

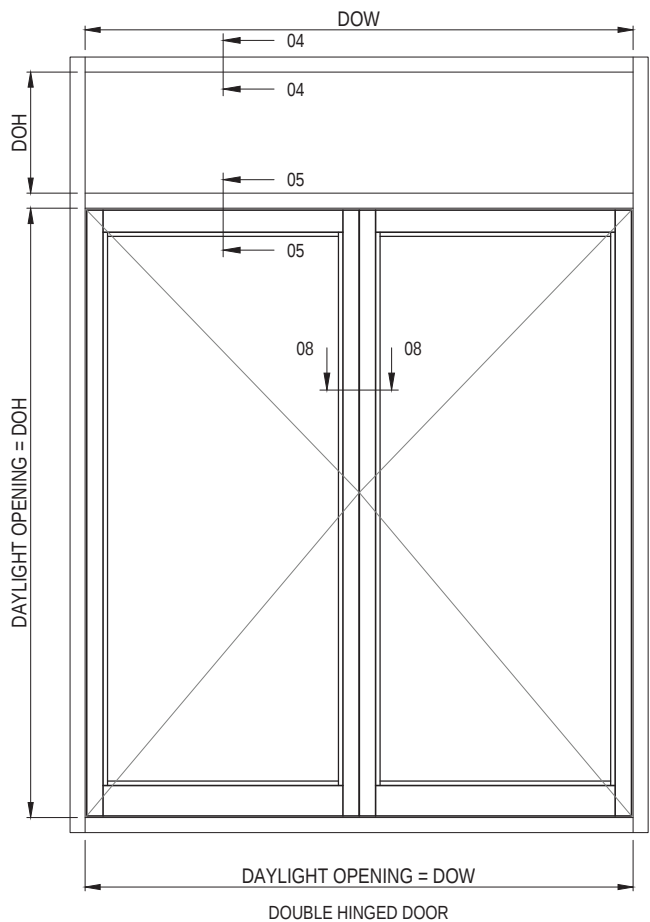
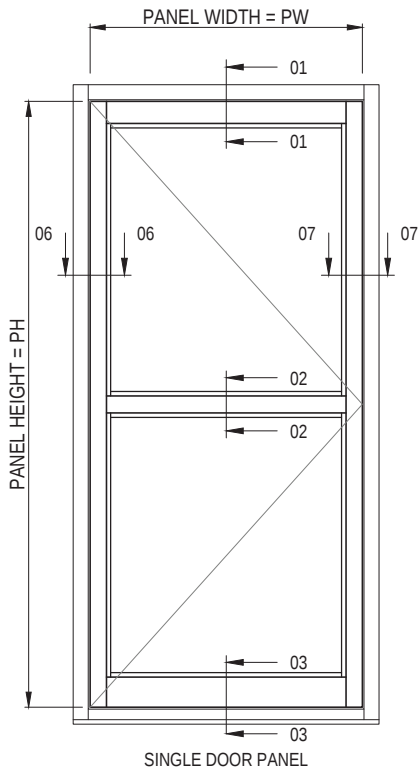


USE WITH 440TB & 419TB HEADS

Please read in conjunction with Important Conditions – Index (also available on Capral website)

Hinged Door

Configurations



Hinged Door

Vertical Arrangement 01 & 03 - 440TB Head & 100mm Threshold

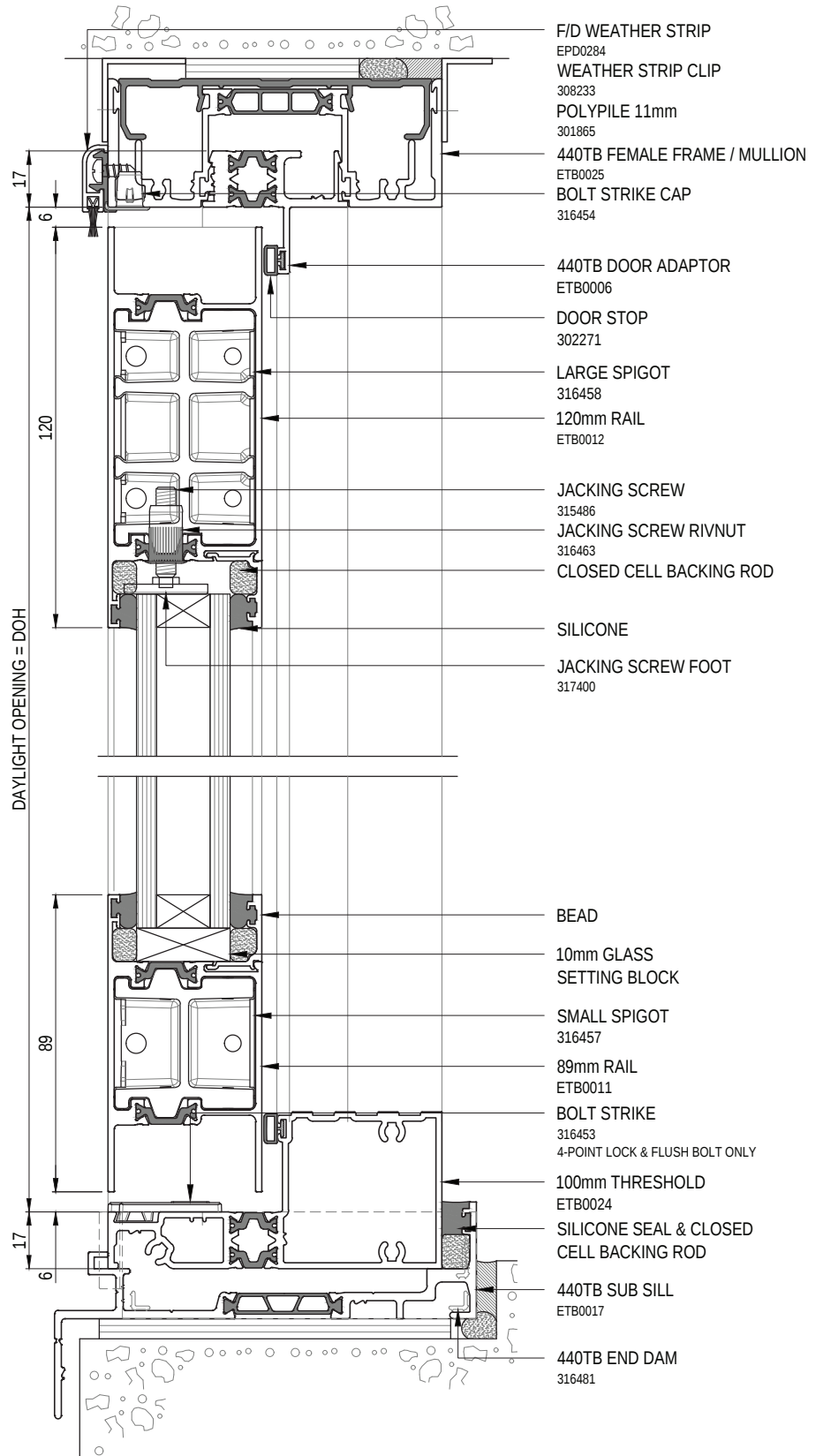
Scale 1:2

NOTE: WEATHER STRIP REQUIRED TO ACHIEVE TESTED WATER RATING
REFER TO FUTURELINE 440TB MANUAL FOR FRAME DETAILS

OUTSIDE

①
440TB HEAD

③
100mm
THRESHOLD

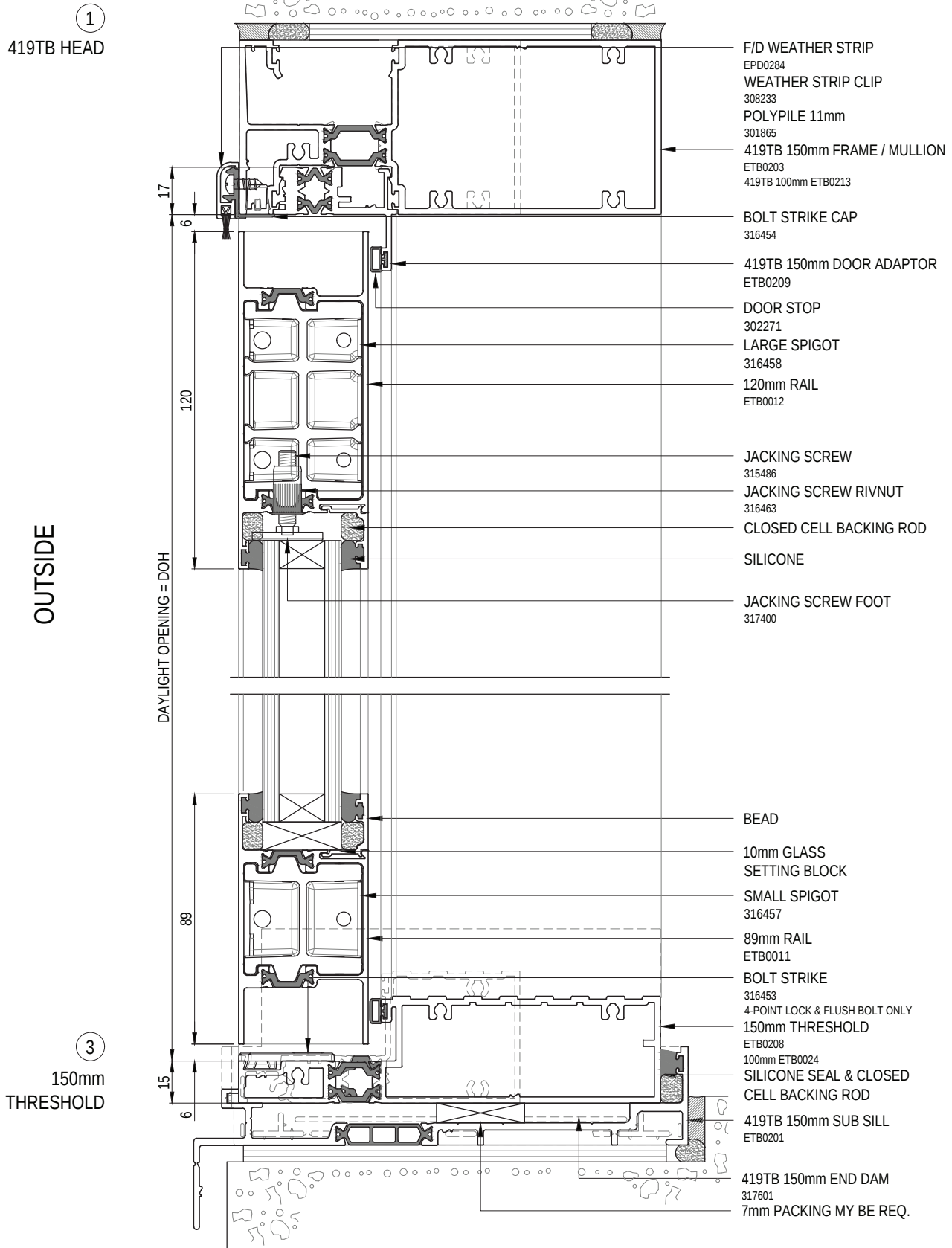


Please read in conjunction with Important Conditions – Index (also available on Capral website)

Vertical Arrangement 01 & 03 - 419TB Head & 150mm Threshold

Scale 1:2

NOTE: WEATHER STRIP REQUIRED TO ACHIEVE TESTED WATER RATING
419TB 150mm SHAWN AS AN EXAMPLE, 419TB 100mm SIMILAR
REFER TO FUTURELINE 419TB MANUAL FOR FRAME DETAILS



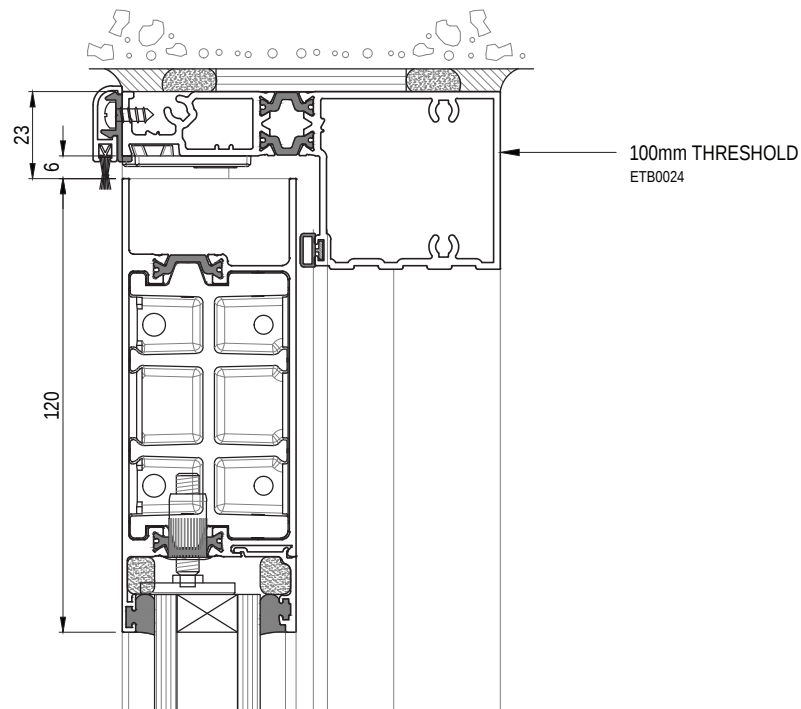
Please read in conjunction with Important Conditions – Index (also available on Capral website)

Vertical Arrangement 01 - Alternative Heads

Scale 1:2

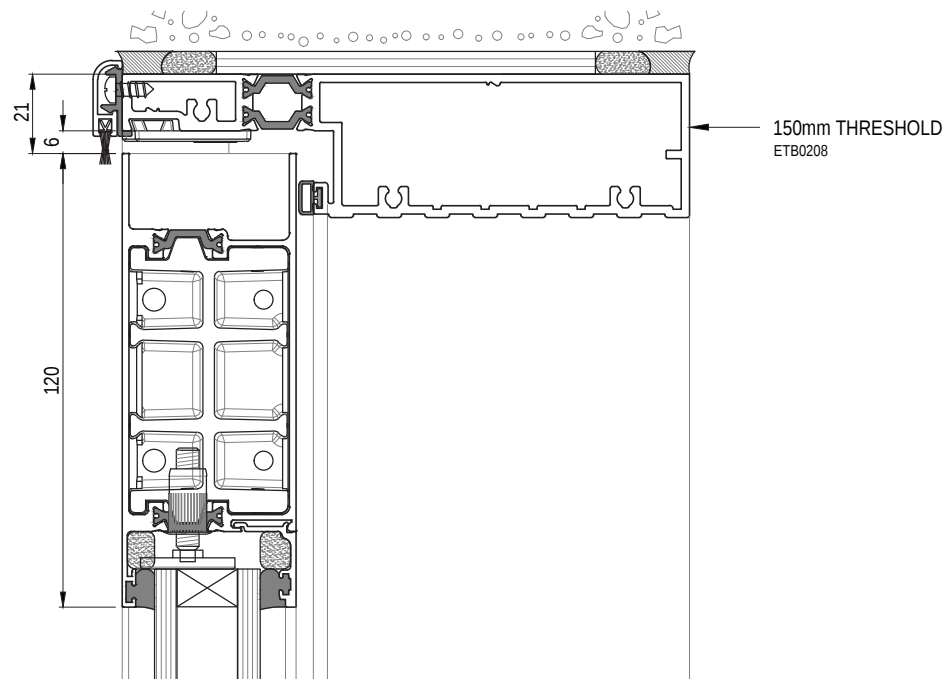
NOTE: WEATHER STRIP REQUIRED TO ACHIEVE TESTED WATER RATING
REFER TO FUTURELINE MANUALS FOR FRAME DETAILS

①
440TB ALT. HEAD



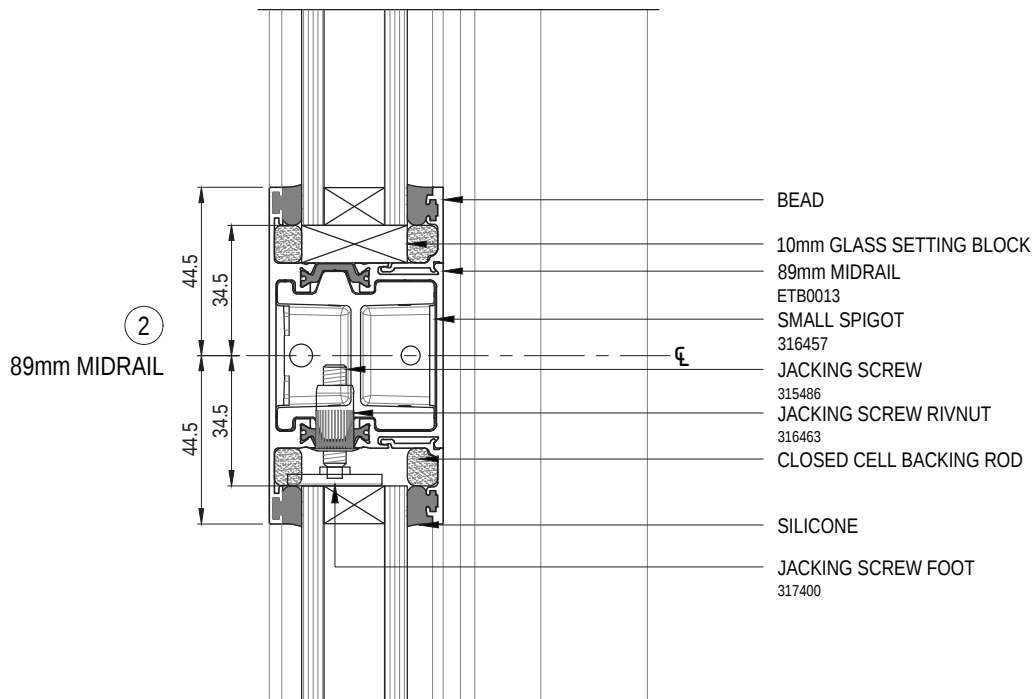
OUTSIDE

①
440TB ALT. HEAD

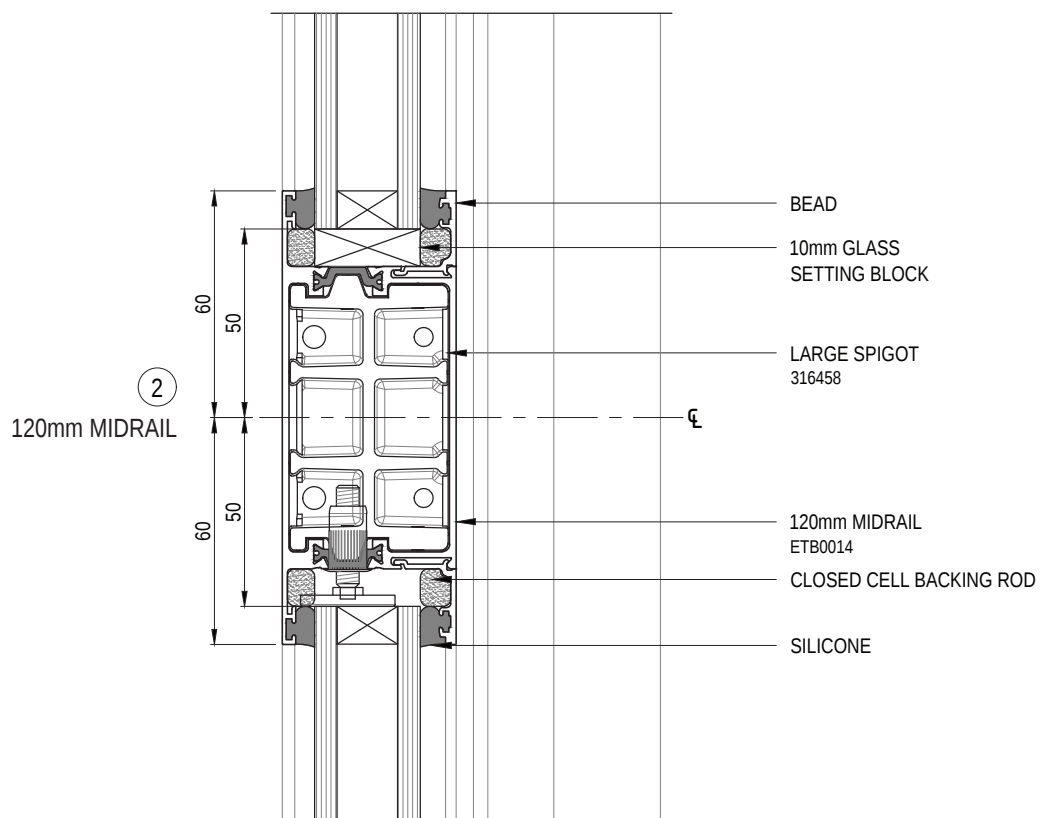


Vertical Arrangement 02 - Midrails

Scale 1:2



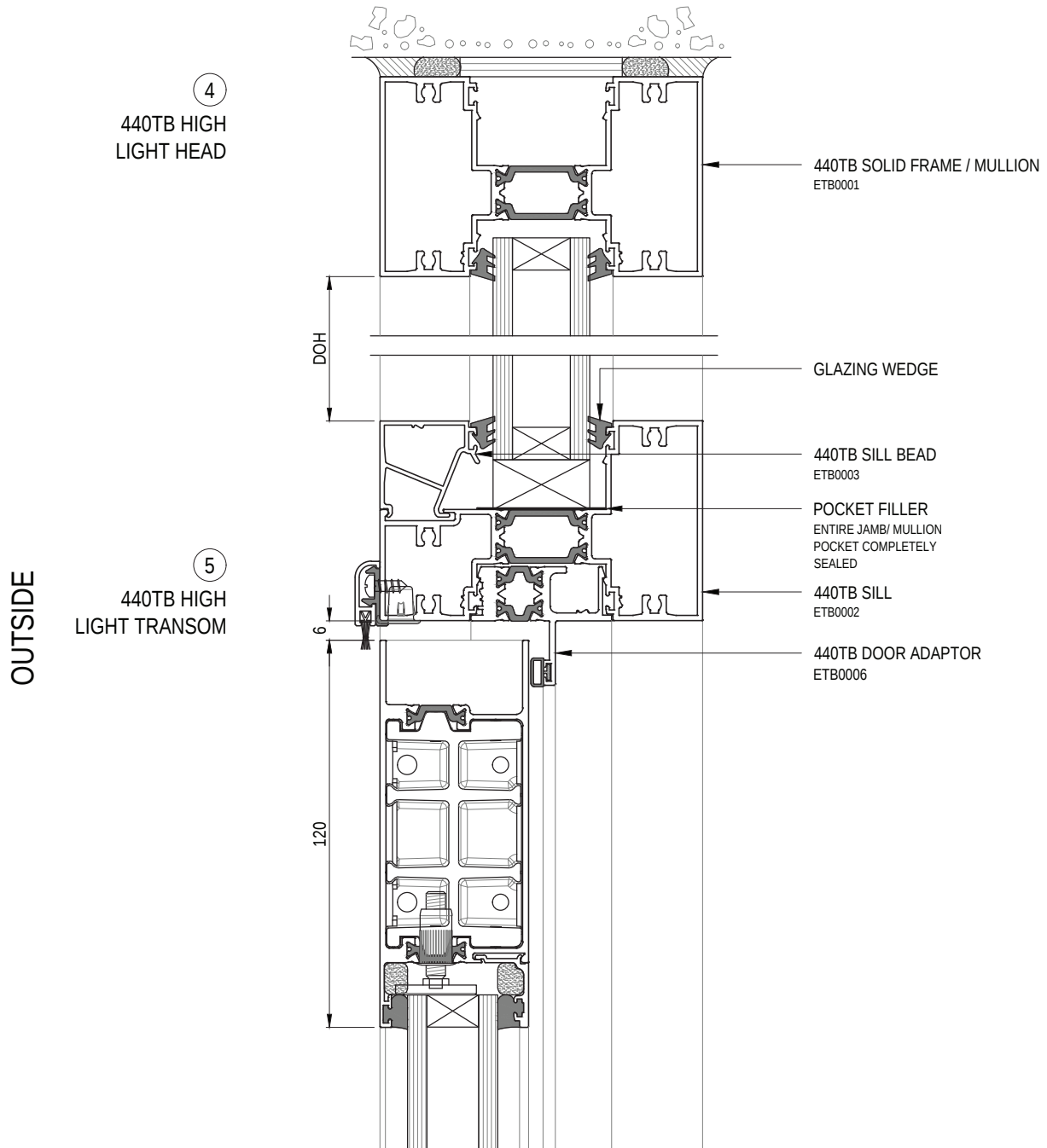
OUTSIDE



Vertical Arrangement 04 & 05 - 440TB High Light

Scale 1:2

NOTE: REFER TO FUTURELINE 440TB MANUAL FOR FRAME DETAILS INCLUDING TRANSOM DRAINAGE

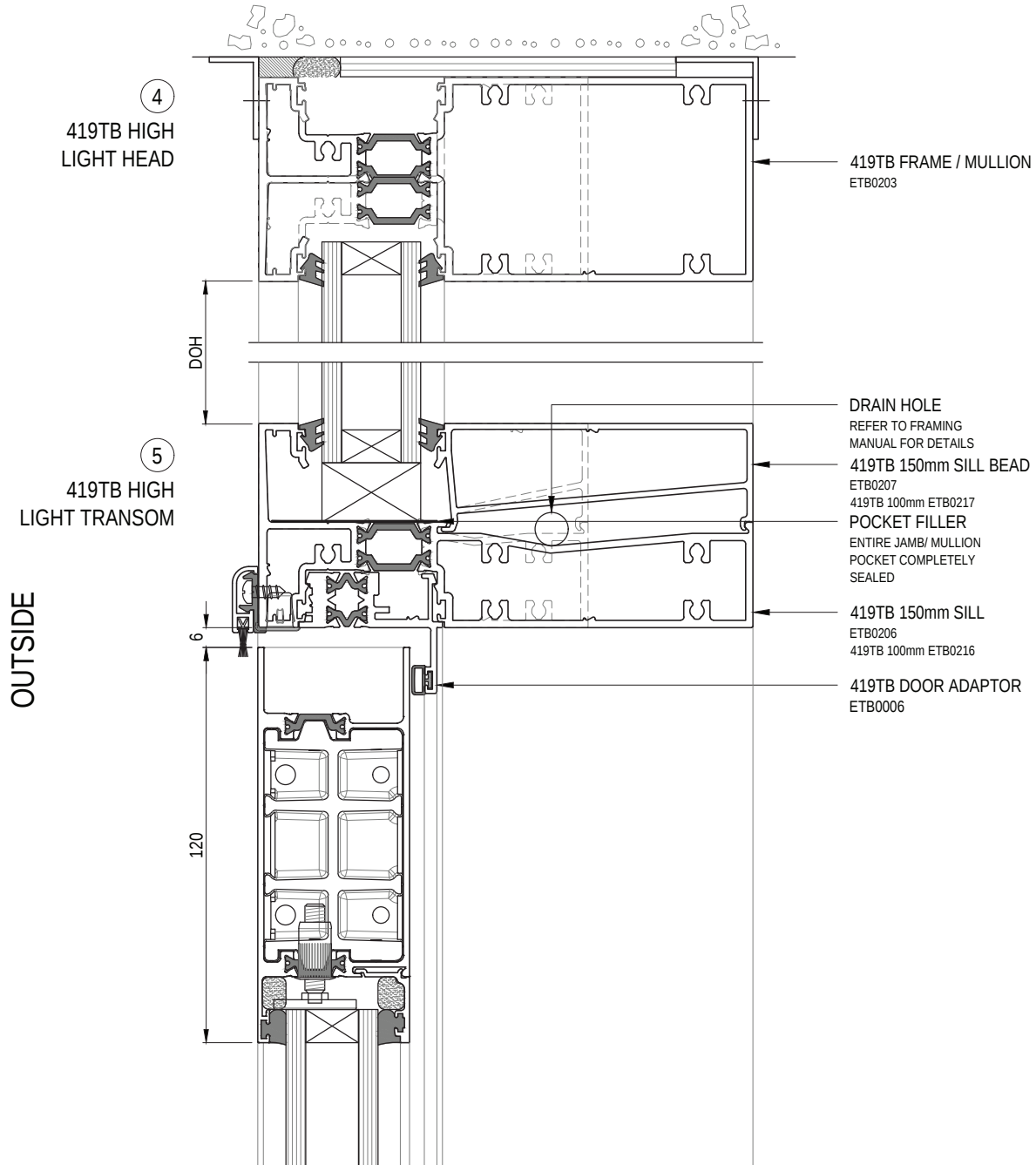


Vertical Arrangement 04 & 05 - 419TB High Light Head

Scale 1:2

NOTE: 419TB 150mm SHOWN AS AN EXAMPLE, 419TB 100mm SIMILAR

REFER TO FUTURELINE 419TB MANUAL FOR FRAME DETAILS INCLUDING TRANSOM DRAINAGE

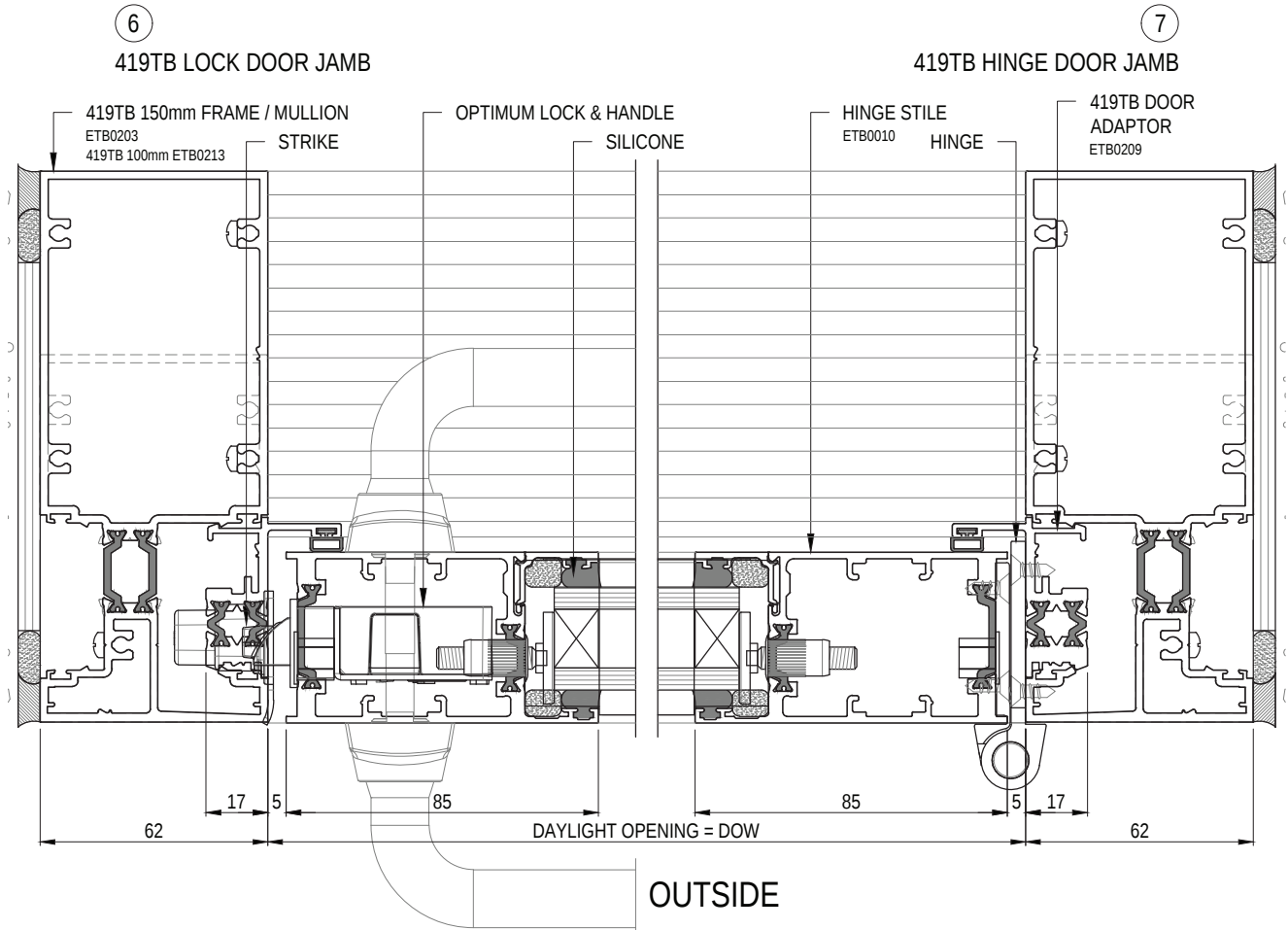
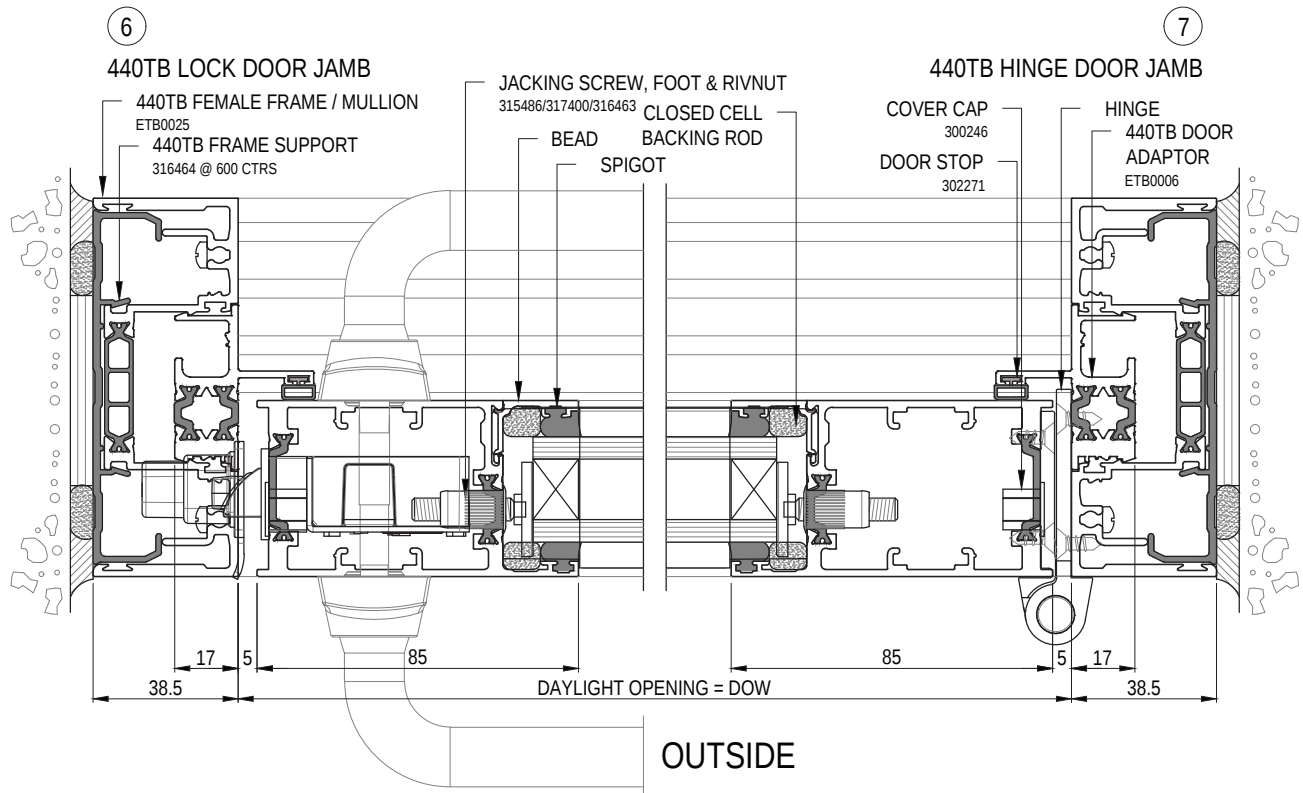


Hinged Door

Horizontal Arrangement 06 & 07 - Lock & Hinge Jamb

Scale 1:2

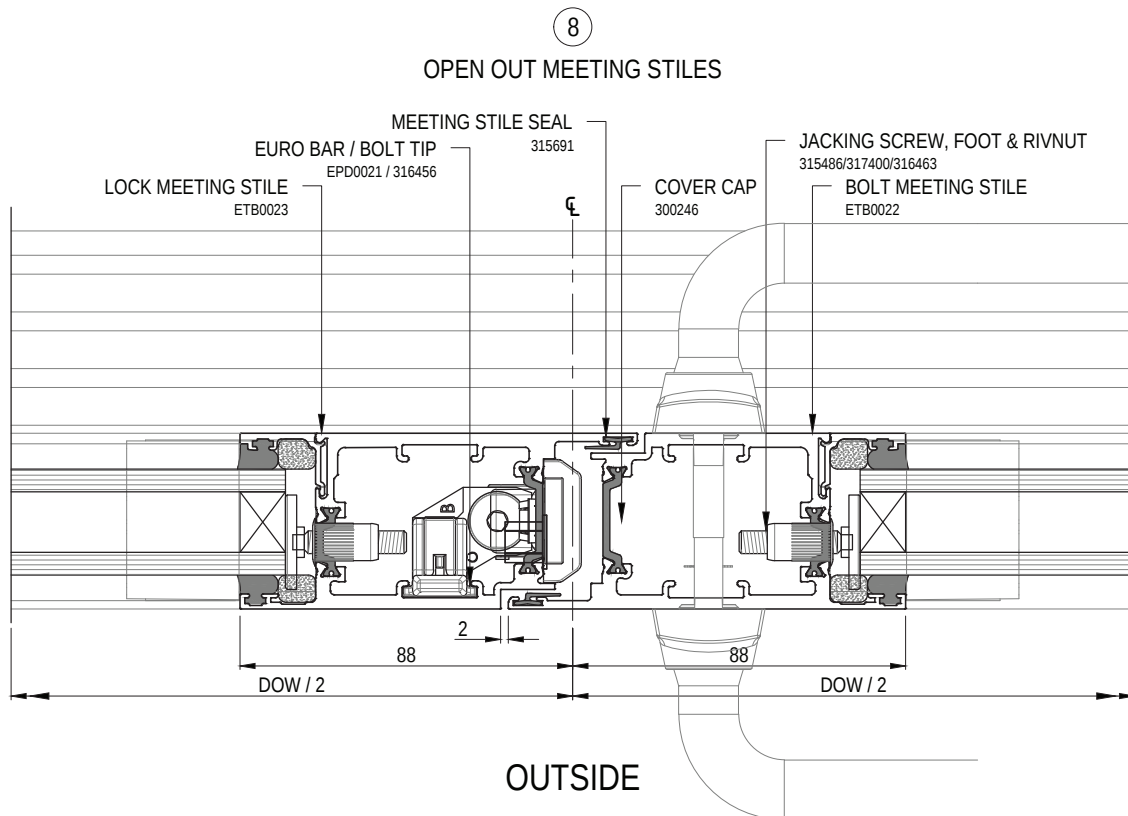
NOTE: REFER TO FUTURELINE 440TB & 419TB MANUALS FOR FRAME DETAILS



Please read in conjunction with Important Conditions – Index (also available on Capral website)

Horizontal Arrangement 08 - Meeting Stiles

Scale 1:2



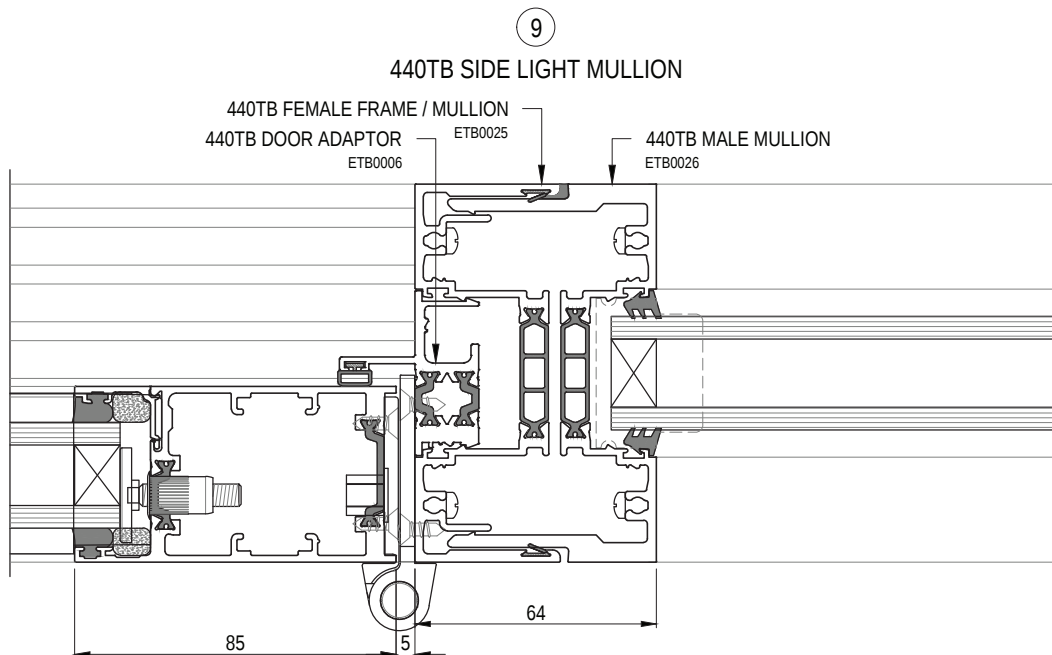
Please read in conjunction with Important Conditions – Index (also available on Capral website)

Hinged Door

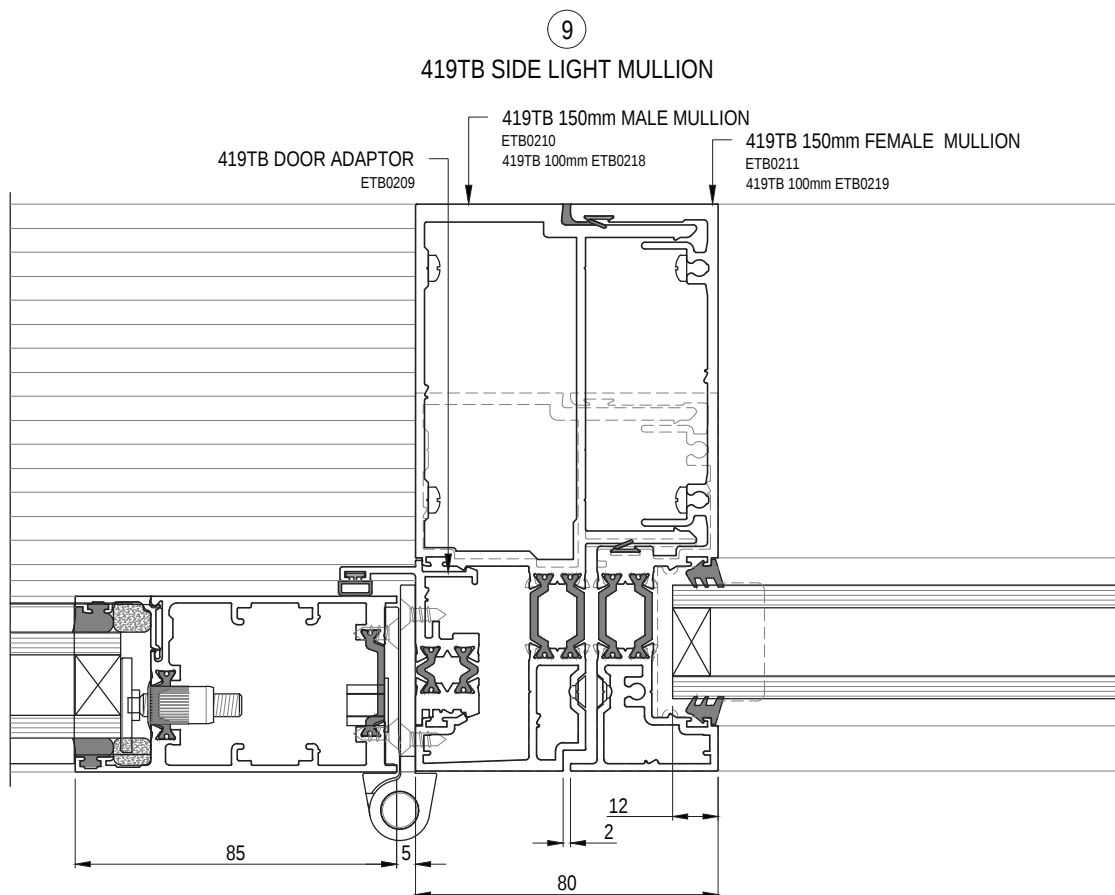
Horizontal Arrangement 9 - Side Light Mullions

Scale 1:2

NOTE: REFER TO FUTURELINE 440TB & 419TB MANUALS FOR FRAME DETAILS



OUTSIDE



OUTSIDE

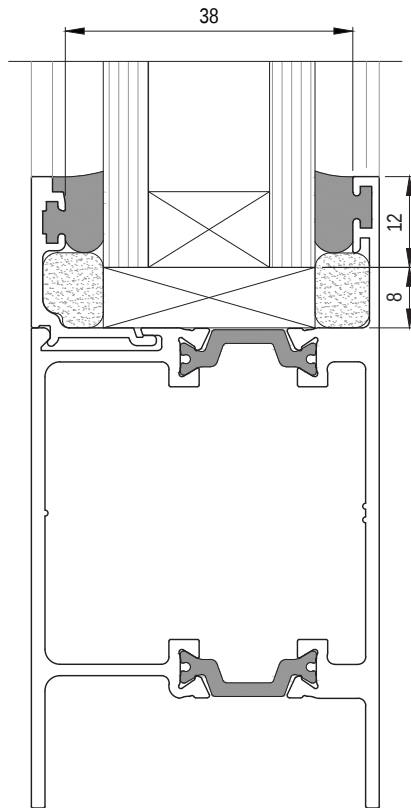
Please read in conjunction with Important Conditions – Index (also available on Capral website)

Hinged Door

Glazing Details

Scale 1:1

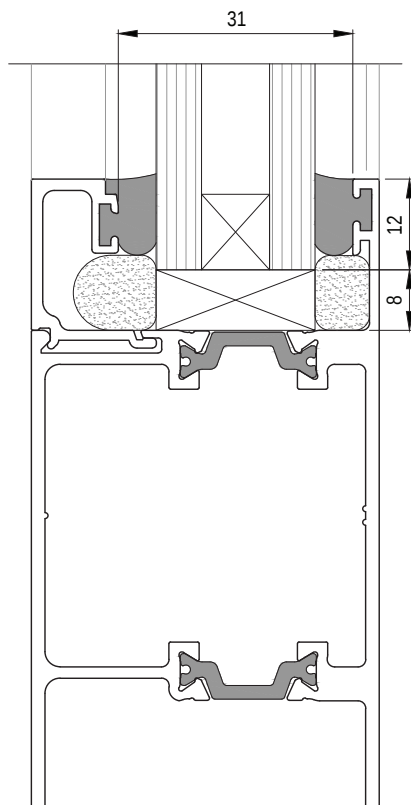
NOTE: POLYETHYLENE OR POLYPROPYLENE GLASS SETTING BLOCK RECOMMENDED FOR DG GLASS.
AVOID USING PVC DUE TO THE RISK OF PLASTICISER MIGRATION.



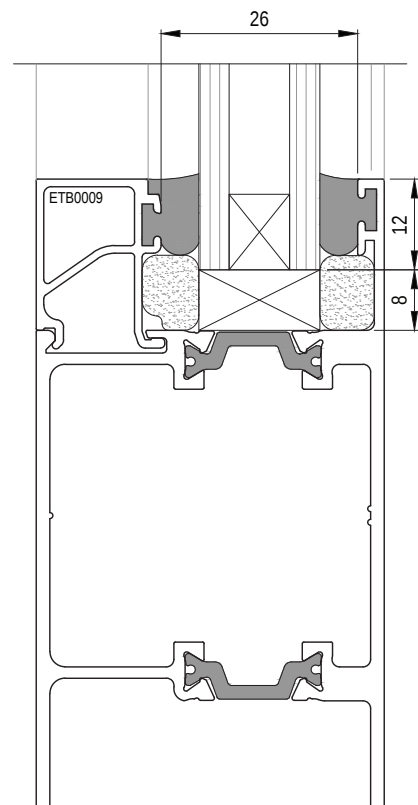
4.5mm BEAD - 18mm to 32mm GLASS

WET GLAZING

- WHERE THE GLASS THICKNESS PERMITS, INSERT A BACKING ROD ON EITHER SIDE OF THE GLASS.
- CENTRE THE GLASS WITHIN THE GLAZING POCKET USING THE APPROPRIATE PACKERS ON EITHER SIDE.
- APPLY A CONTINUOUS SILICONE BEAD AROUND THE FULL PERIMETER OF THE PANEL, BOTH INSIDE AND OUT.



11.5mm BEAD - 11mm to 25mm GLASS

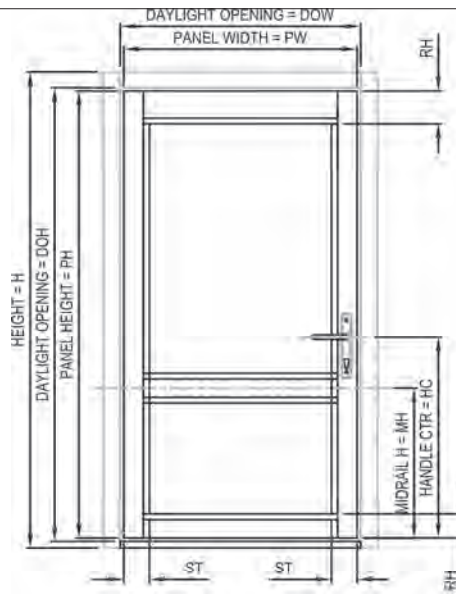


16.5mm BEAD - 6mm to 20mm GLASS

Please read in conjunction with Important Conditions – Index (also available on Capral website)

Hinged Door

Cutting Formula and BOM



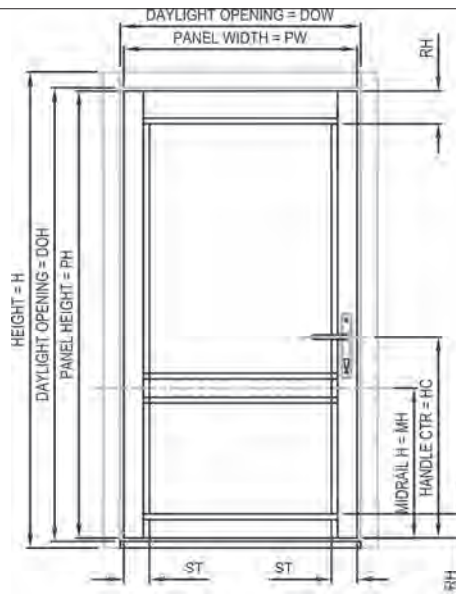
DETAILS			
VARIATIONS		VARIATIONS	
THRESHOLD HEIGHT = TH		STILE WIDTH = SW	
100mm Threshold ETB0024	17	Hinge Stile ETB0010	85
150mm Threshold ETB0208	15	Bolt Meeting Stile ETB0022	88
RAIL HEIGHT = RH		Lock Meeting Stile ETB0023	88
89mm Rail ETB0011 / Midrail ETB0013	89	Pivot Stile ETB0020	85.5
120mm Rail ETB0012 / Midrail ETB0014	120	Large Pivot Stile ETB0021	120

CUTTING FORMULAS - DOOR ADAPTORS

H	Description	Section	Formula	Quantity
	Notched Option			
	440TB Door Adaptor	ETB0006	H	2
	419TB Door Adaptor	ETB0209		
	Mitred Option (Not compatible with threshold as head)			
	440TB Door Adaptor	ETB0006	DOH + 34	2
	419TB Door Adaptor	ETB0209	DOH + 32	

W	Description	Section	Formula	Quantity
	Notched Option			
	440TB Door Adaptor	ETB0006	DOW	2
	419TB Door Adaptor	ETB0209		
	Mitred Option (Not compatible with threshold as head)			
	440TB Door Adaptor	ETB0006	DOW + 34	2
	419TB Door Adaptor	ETB0209	DOW + 34	

Cutting Formula and BOM



CUTTING FORMULAS - PER PANEL

	Description	Section	Formula	Quantity
HEIGHTS	Panel Height	PH	DOH - 12	
	Hinge Stile	ETB0010	PH	2
	Bolt Meeting Stile	ETB0022		
	Lock Meeting Stile	ETB0023		
	Pivot Stile	ETB0020		
	Large Pivot Stile	ETB0021		
	4.5mm Bead	ETB0007	PH - 2RH	2
	4.5mm Bead - with Midrail	ETB0007	MH - 1.5RH	2
			PH - MH - 1.5RH	2
	Euro Bar - Bolt Top	EPD0021	PH - HC - 330	1
	Euro Bar - Lock Top		PH - HC - 120	
	Euro Bar - Bolt Bottom		HC - 336	1
	Euro Bar - Lock Bottom		HC - 192	

	Description	Section	Formula	Quantity
WIDTHS	Panel Width - Single Door	PW	DOW - 10	
	Panel Width - Double Door		(DOW - 10)/2	
	89mm Rail	ETB0011	PW - 2ST + 40	2
	120mm Rail	ETB0012		
	89mm Midrail	ETB0013	PW - 2ST + 40	Optional
	120mm Midrail	ETB0014		
	4.5mm Bead	ETB0007	PW - 2ST + 40	2*
	11.5mm Bead	ETB0008		
	16.5mm Bead	ETB0009		
	Weather Strip (At Head)	EPD0284	DOW - 2	1

* 2 EXTRA REQUIRED FOR EACH MIDRAIL USED

	Description	Section	Formula	Quantity
GLASS	Glass	Height	BEAD H + 24	1 (2 Midrail)
		Width - Single Door	DOW - 156	
		Width - Double Door	DOW/2 - 154	

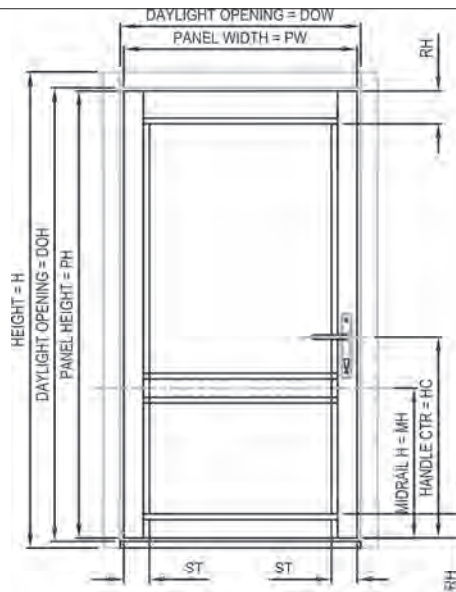
BILL OF MATERIALS

	Description	Part No.	UOM*	Qty.
COMPONENTS	Door Stop	302271	mm	2H + 2W
	Meeting Stile Seal	315691		
	Weather Strip Clip	308233	mm	W
	Polypile 11mm	301856	mm	W
	Weather Strip Cap RH	308231	each	1
	Weather Strip Cap LH	308232	each	1

Please read in conjunction with Important Conditions – Index (also available on Capral website)

Hinged Door

Cutting Formula and BOM



BILL OF MATERIALS

	Description	Part No.	UOM*	Qty.
COMPONENTS	Jacking Screw Foot	317400	each	3
	Jacking Screw	315486	each	3
	Jacking Screw Rivnut	316463	each	3
	10mm Cover Cap	300246	each	2
	46D Standard Spigot	315457	each	4
	46D Large Spigot	316458		
	46D Hinge	Ref. Sec. 4	each	3
	40mm Backset Optimum Lock	316483	each	1
	Optimum 300mm Face Plate	316486	each	1
	Handle Kit	Ref. Sec. 4	each	1
	Lock Cylinder	Ref. Sec. 4	each	1
	46D 4-Point Euro Lock Adaptor	316455	each	2
	46D Euro Bolt Tip	316456	each	2
	46D Bolt Strike - Thresholds only	316453	each	1 or 2
	46D Bolt Strike Cap - Frame Head Only	316454	each	1 or 0
	U Nut Fastener	316462	each	2
	46D Bolt Strike Cap	316454	each	2
	Central Strike LH	307747	each	1
	Central Strike RH	307633		
	46D Meeting Stile Strike - DD	317071		
	Surface Flush Bolt - DD	Ref. Sec. 4	each	2
	46D LH Flush Bolt Adaptor - DD	317073	each	2
	46D RH Flush Bolt Adaptor - DD	317074		
	Door Closer - Optional	Ref. Sec. 4	each	1
	8g x 25mm PAN Screw - STD Spigot	300672	Per	2
	8g x 25mm PAN Screw - LG Spigot		Spigot	4
	10g x 25mm PAN Screw - Spigot	300059	each	8
	10g x 12mm CSK Screw - Hinge	300058	each	30
	6g x 13mm CSK Screw - Bolt Strike	310549	each	4
	8g x 25mm CSK Screw - Strike	300671	each	2
	8g x 25mm CSK Screw - Flush Bolt	300671	each	4
	MIDRAIL			
	10g x 25mm PAN Screw - STD Spigot	300059	Per	4
	10g x 25mm PAN Screw - LG Spigot		Spigot	6
	46D Standard Spigot	315457	each	2
	46D Large Spigot	316458		

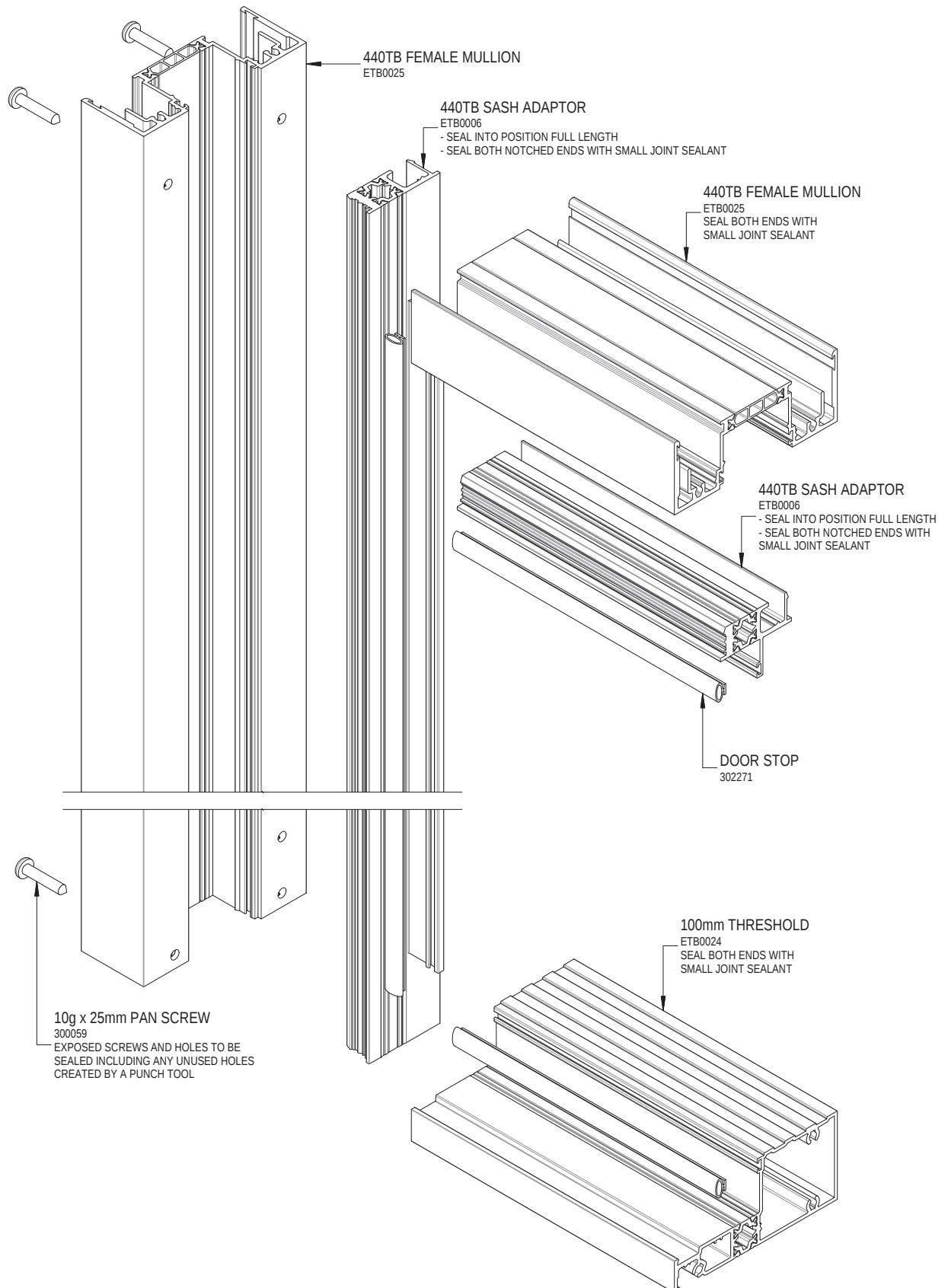
* Part Number may not reflect Unit of Measure (UOM)

Hinged Door

Assembly - Door Frame

Not To Scale

NOTE: FRAME AND ADAPTOR COMBINATION SHOWN AS EXAMPLE, OTHERS SIMILAR
ALTERNATIVE MITRED SASH ADAPTORS AT HEAD NOT COMPATIBLE WITH THRESHOLD AT HEAD

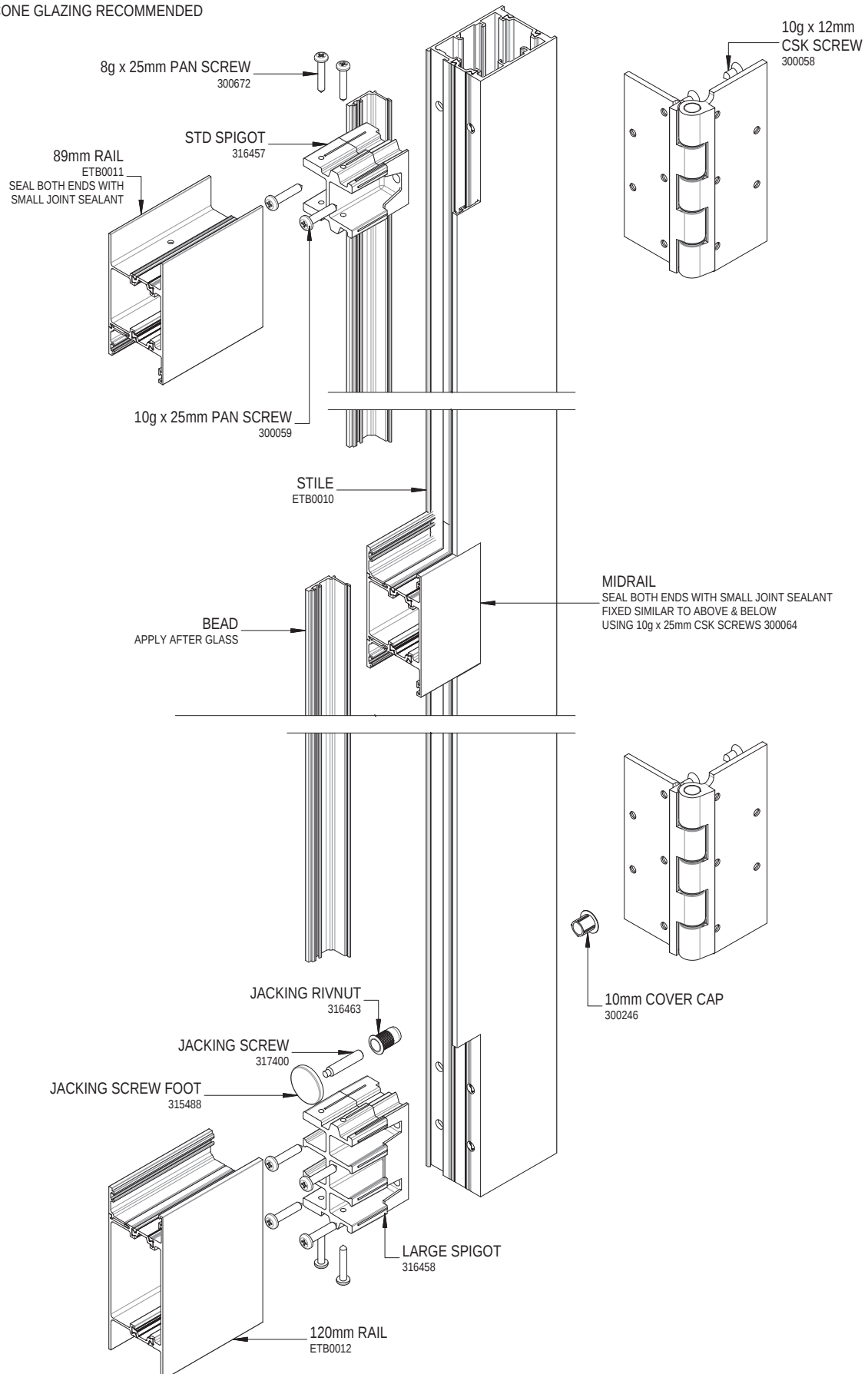


Please read in conjunction with Important Conditions – Index (also available on Capral website)

Assembly - Door Panel

Not To Scale

NOTE: SILICONE GLAZING RECOMMENDED

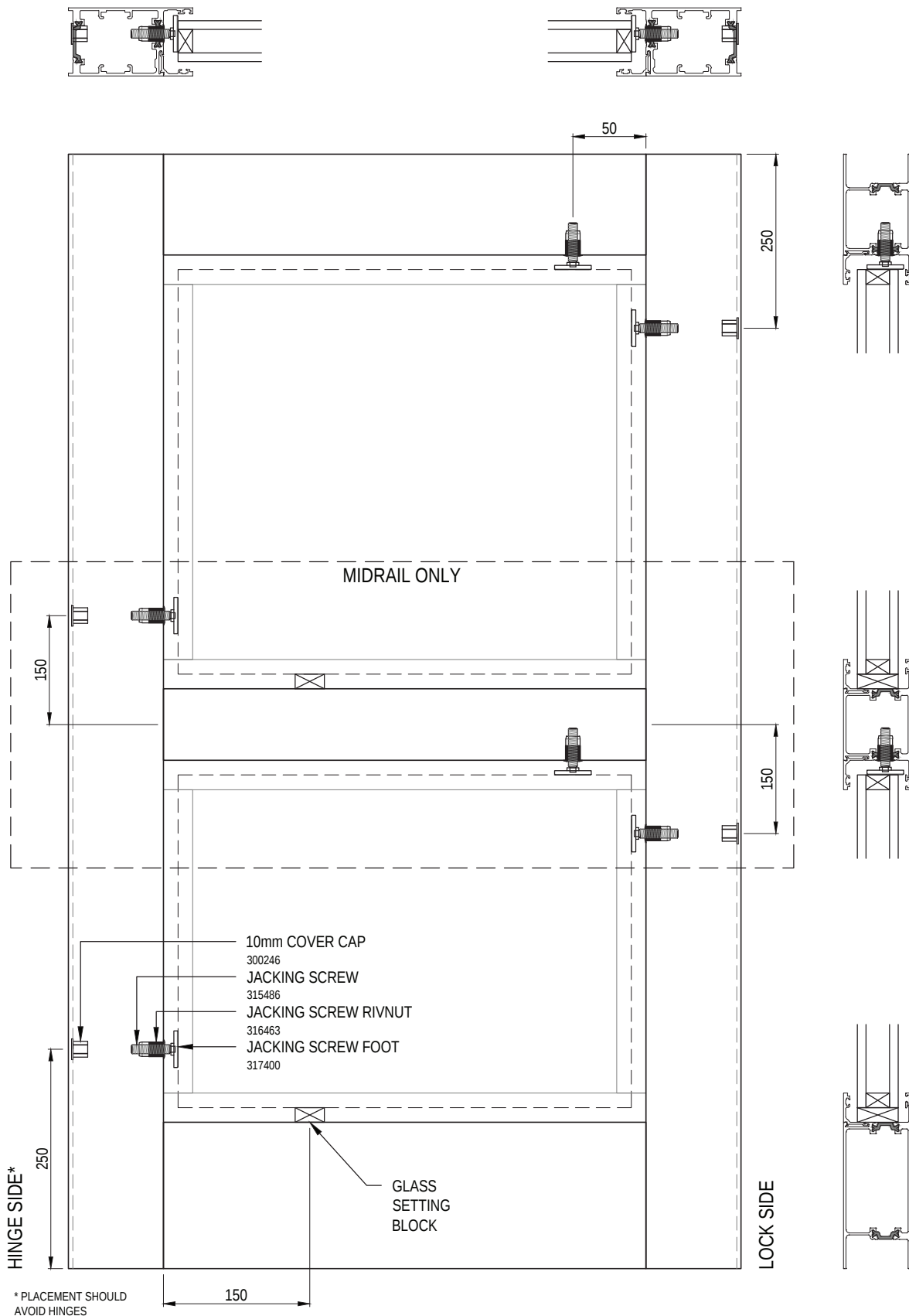


Please read in conjunction with Important Conditions – Index (also available on Capral website)

Hinged Door

Assembly - Heal & Toe Glazing

Scale 1:4



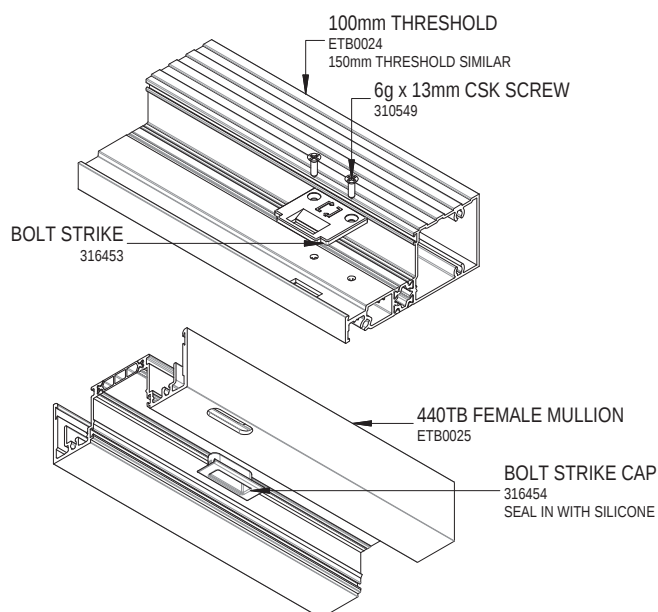
Please read in conjunction with Important Conditions – Index (also available on Capral website)

Assembly - Optimum Locks

Not to Scale

THRESHOLD 4-POINT BOLT STRIKE

THRESHOLD AT HEAD SIMILAR



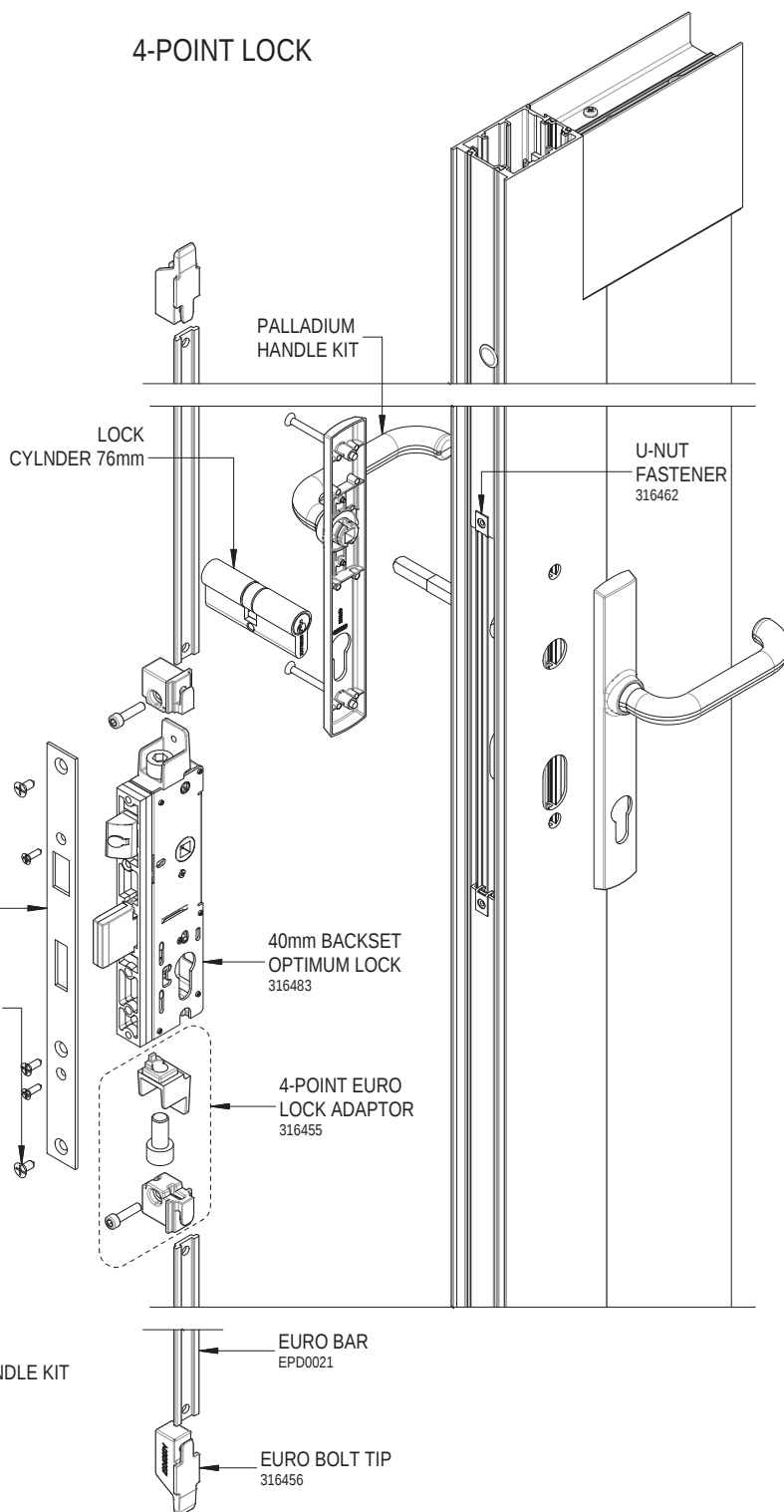
FRAME HEAD BOLT STRIKE CAP

440TB FEMALE MULLION SHOWN AS EXAMPLE

OPTIMUM 300mm FACE PLATE
316486
REPLACES STD FACE
PLATE PART OF 316483

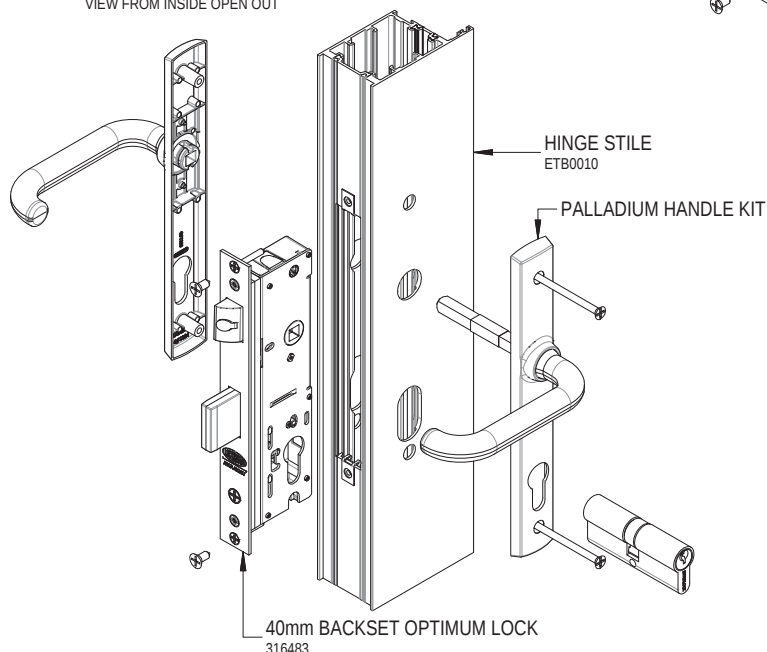
REPLACE WITH M5 x 13mm CSK SCREW
NON STOCKED
TO SUIT U-NUT

4-POINT LOCK



2-POINT LOCK

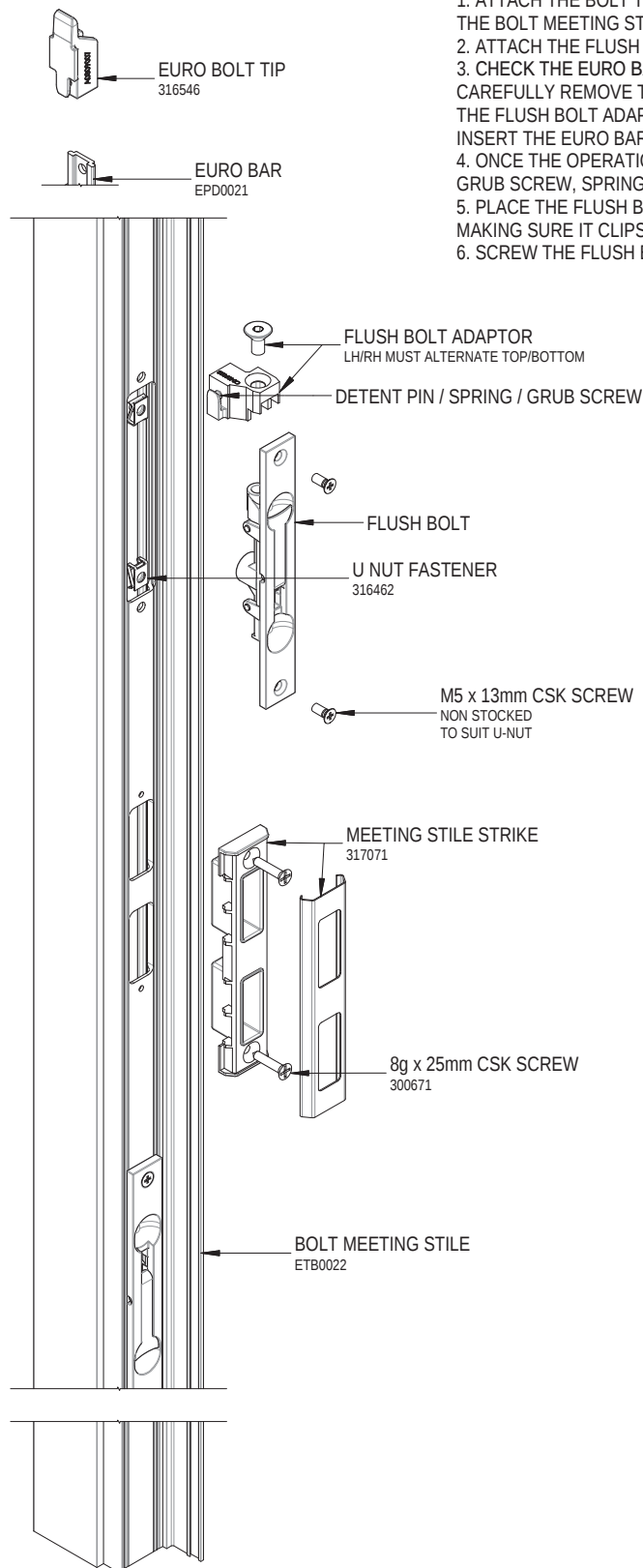
VIEW FROM INSIDE OPEN OUT



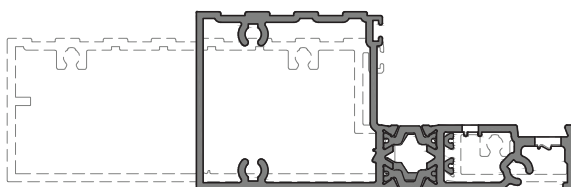
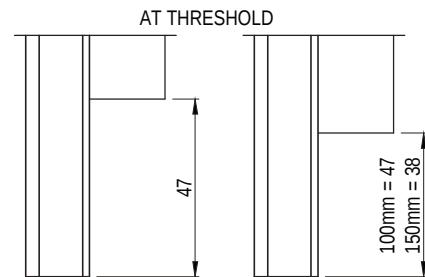
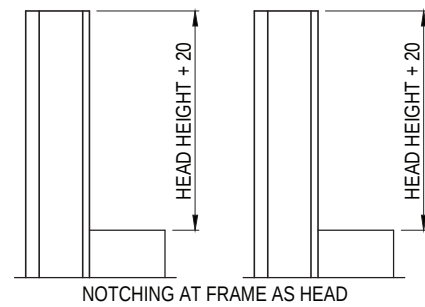
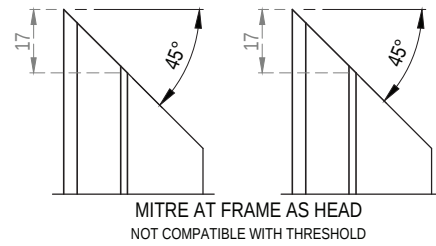
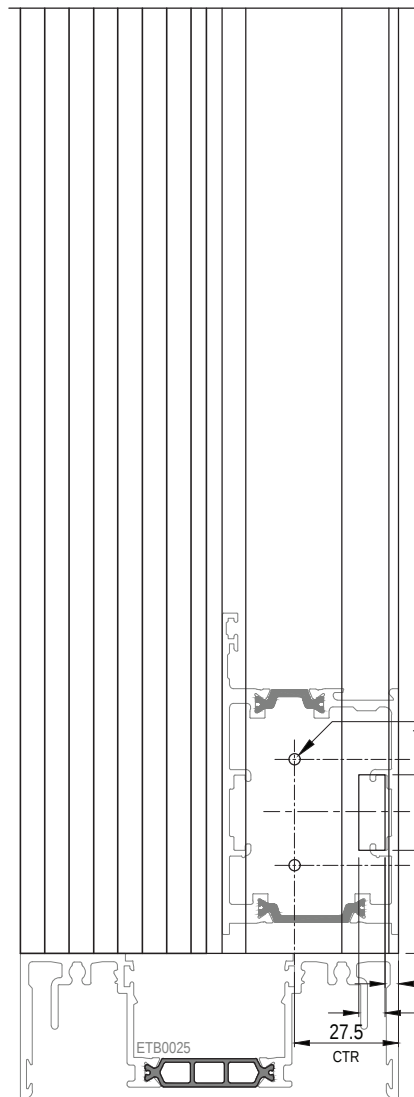
Please read in conjunction with Important Conditions – Index (also available on Capral website)

Assembly - Flush Bolt & Meeting Stile Strike

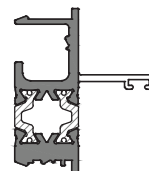
Not To Scale



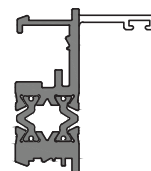
1. ATTACH THE BOLT TIP TO THE EURO BAR AND THE U NUT FASTENER TO THE BOLT MEETING STILE
2. ATTACH THE FLUSH BOLT ADAPTOR TO THE FLUSH BOLT
3. CHECK THE EURO BAR LENGTH AND THE FLUSH BOLT OPERATION BY CAREFULLY REMOVE THE GRUB SCREW, SPRING AND DETENT PIN FROM THE FLUSH BOLT ADAPTOR. PUT THE FLUSH BOLT INTO POSITION AND INSERT THE EURO BAR WITH TIP.
4. ONCE THE OPERATION OF THE FLUSH BOLT IS ENSURED REPLACE THE GRUB SCREW, SPRING AND DETENT PIN INTO THE FLUSH BOLT ADAPTOR.
5. PLACE THE FLUSH BOLT INTO POSITION AND INSERT THE EURO BAR MAKING SURE IT CLIPS INTO PLACE
6. SCREW THE FLUSH BOLT INTO POSITION



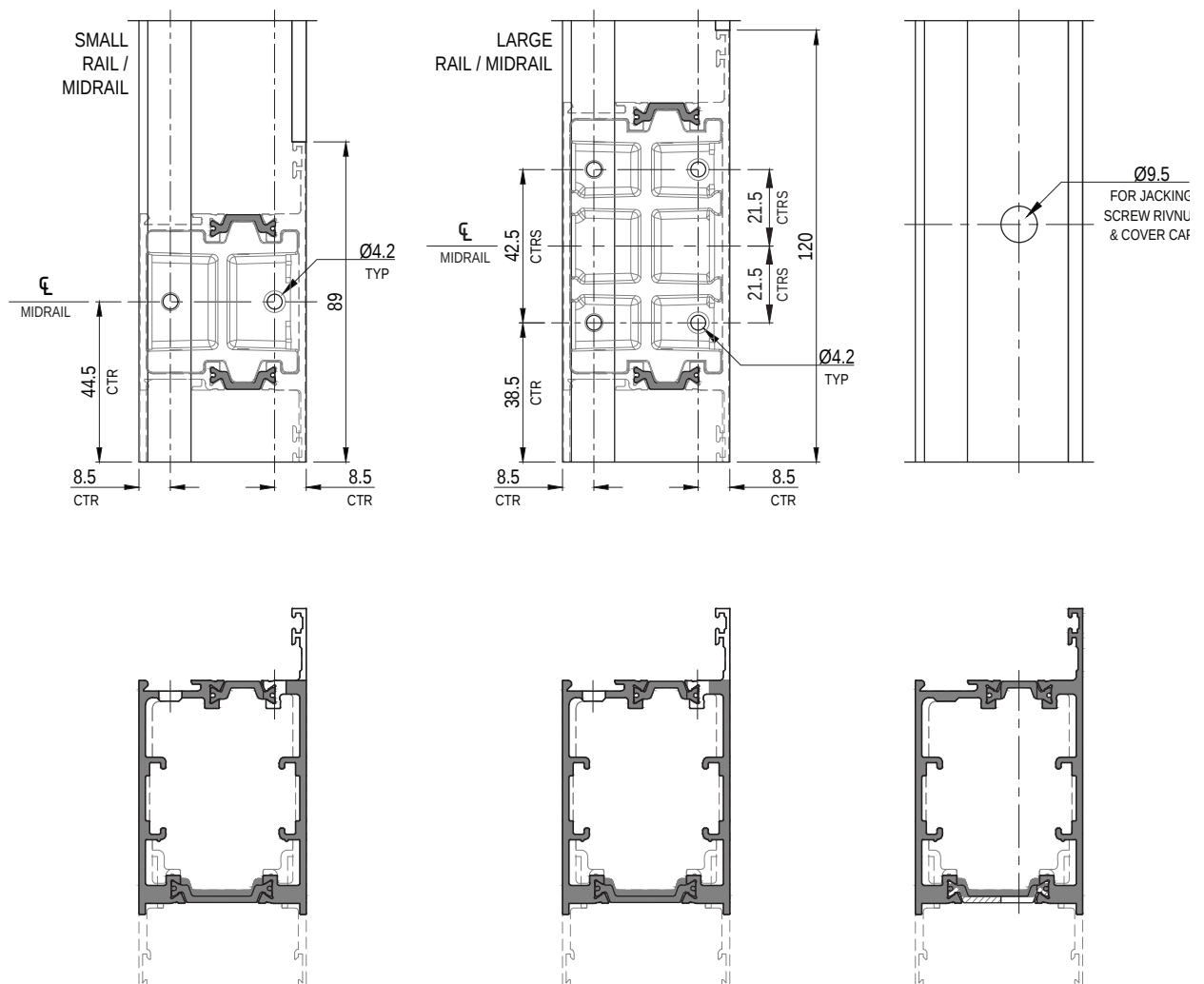
ETB0024 . ETB0200
100mm . 150mm THRESHOLD
AT 4 POINT LOCK ONLY



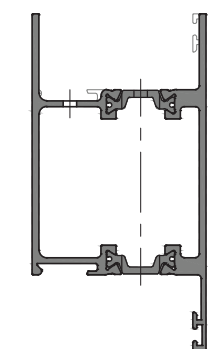
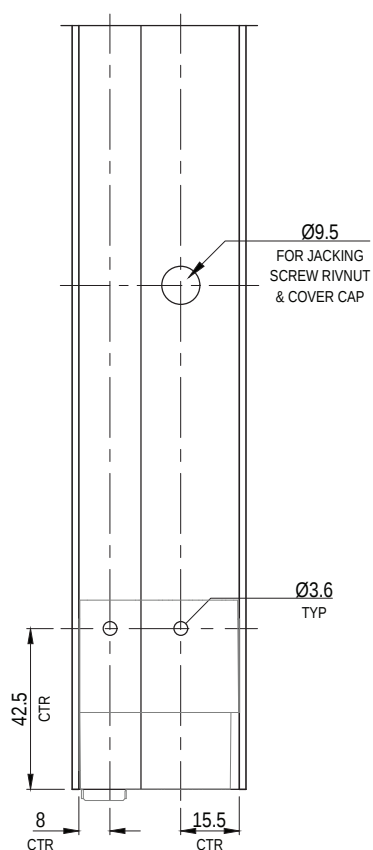
ETB0006
440TB DOOR
STOP



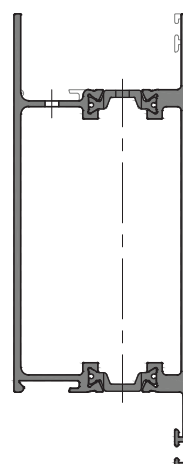
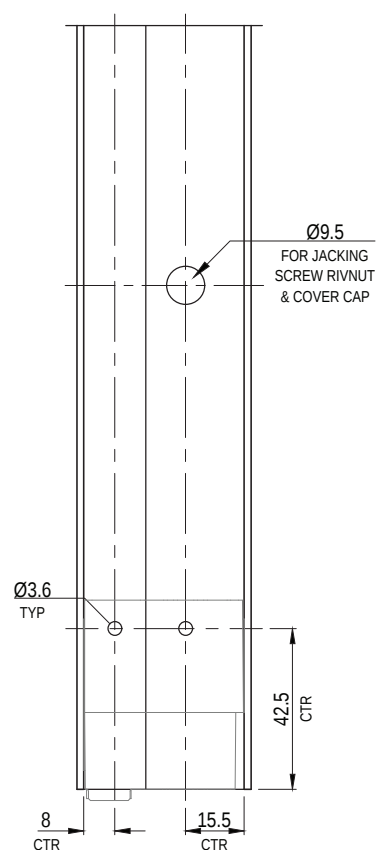
ETB0209
419TB DOOR
STOP



ETB0010 . ETB0022 . ETB0023
STILES



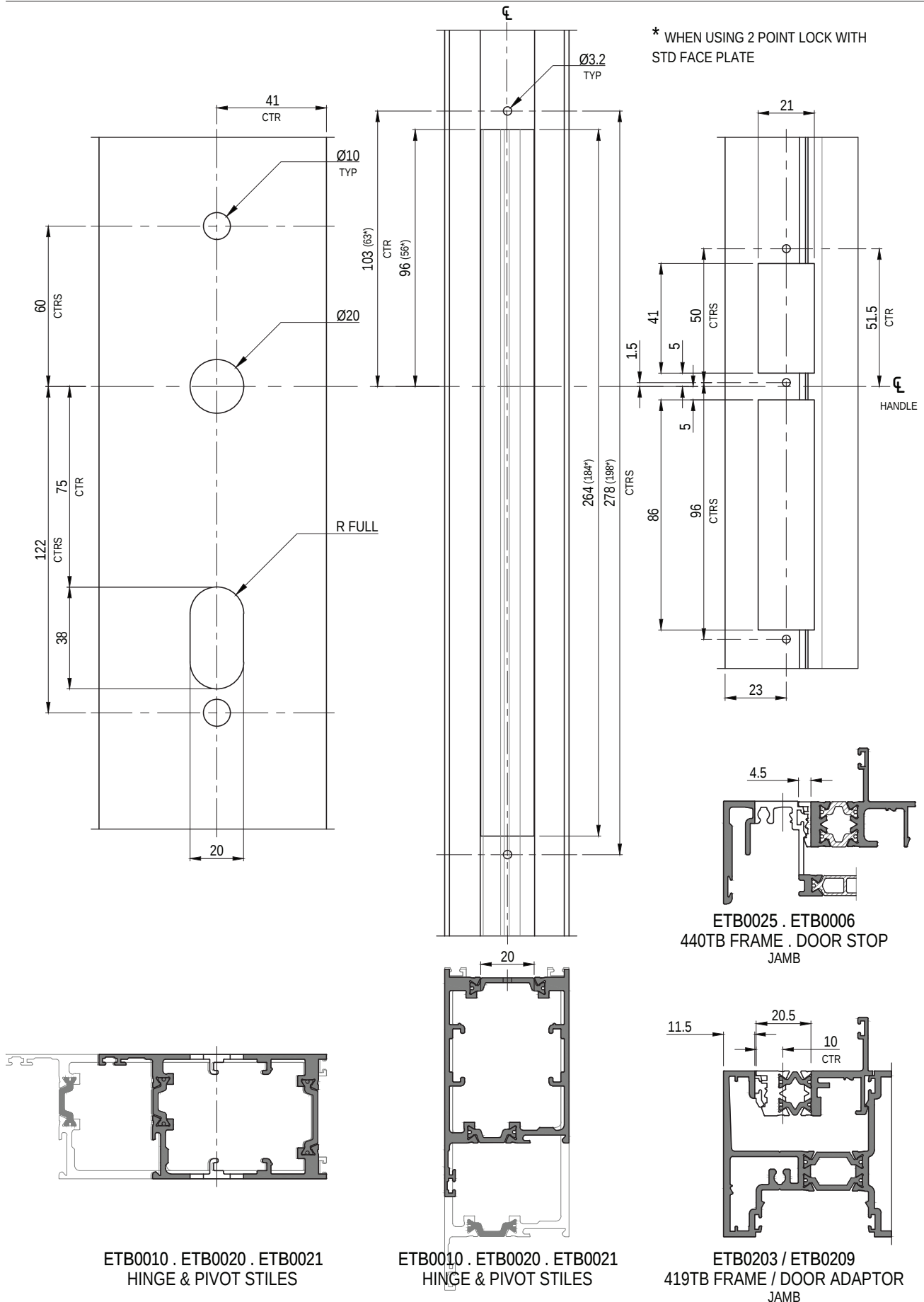
ETB0011 . ETB0013
89mm RAIL . MIDRAIL



ETB0012 . ETB0014
120mm RAIL . MIDRAIL

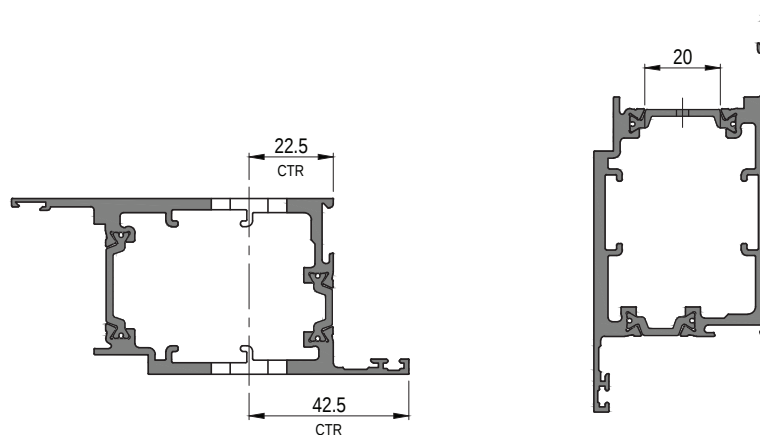
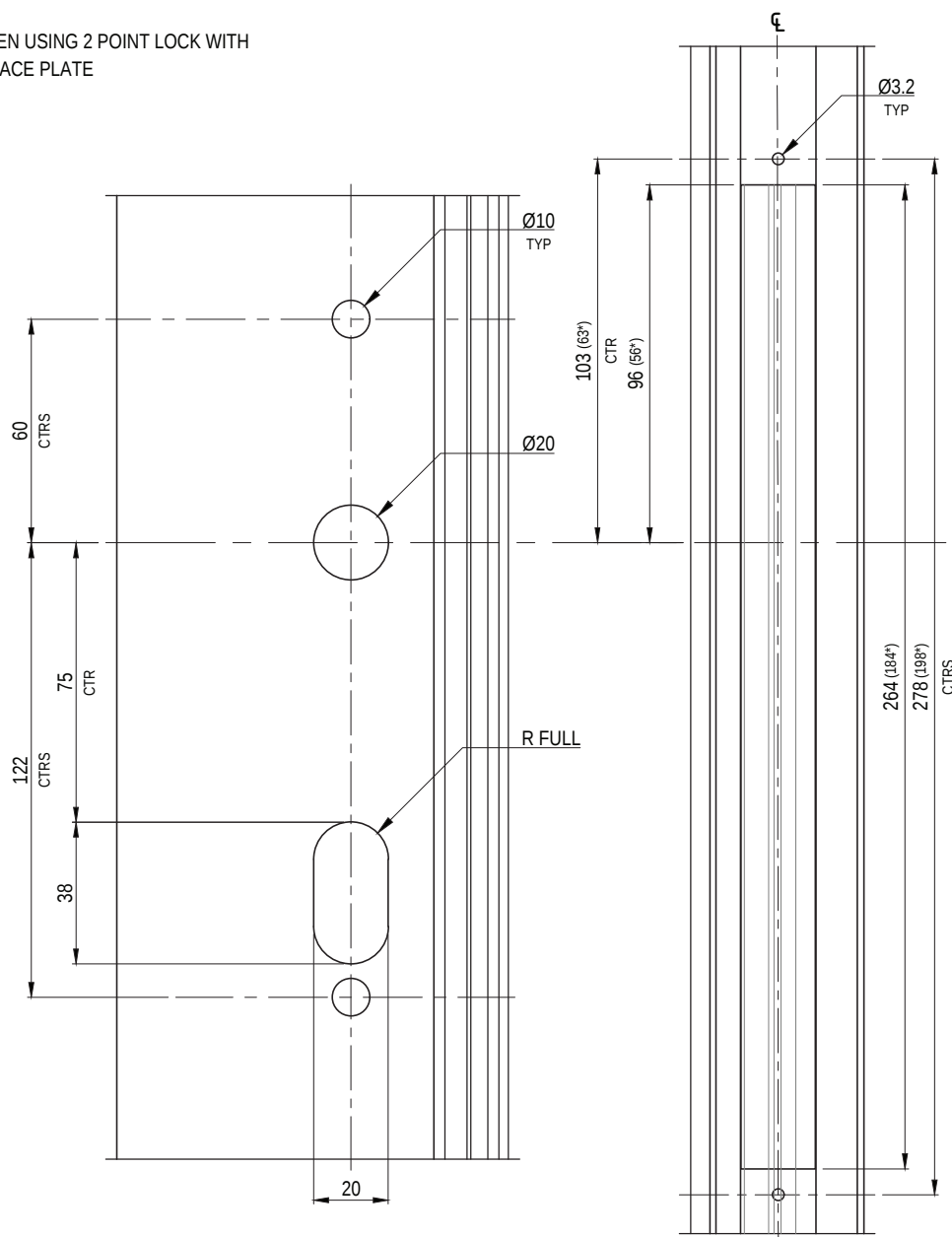
Machining - Optimum Lock at Jamb

Scale 1:2

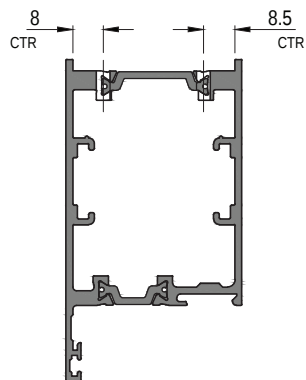
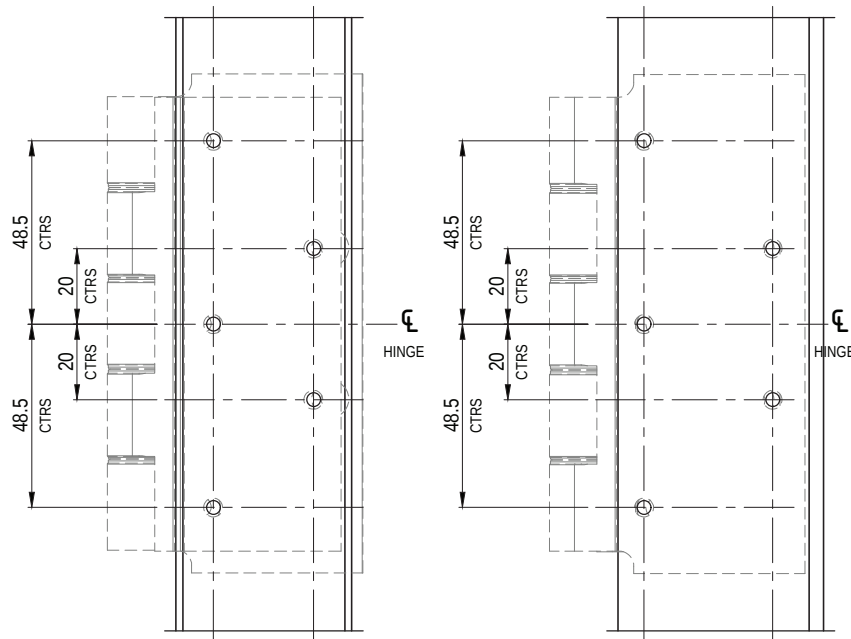


Please read in conjunction with Important Conditions – Index (also available on Capral website)

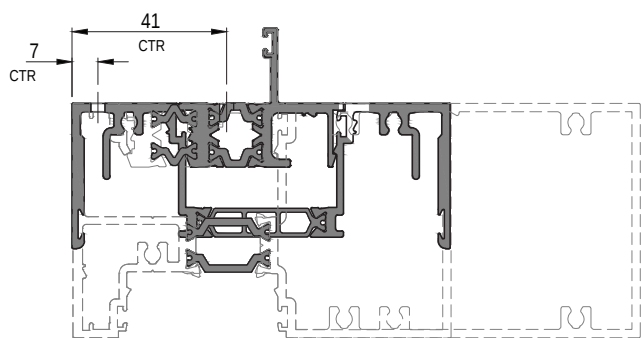
* WHEN USING 2 POINT LOCK WITH
STD FACE PLATE



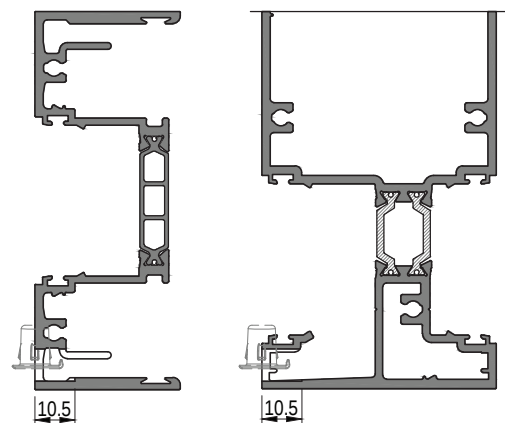
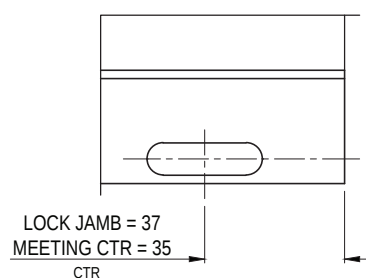
ETB0023
LOCK MEETING STILE



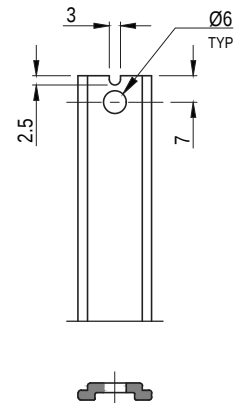
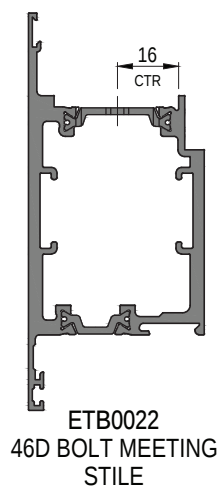
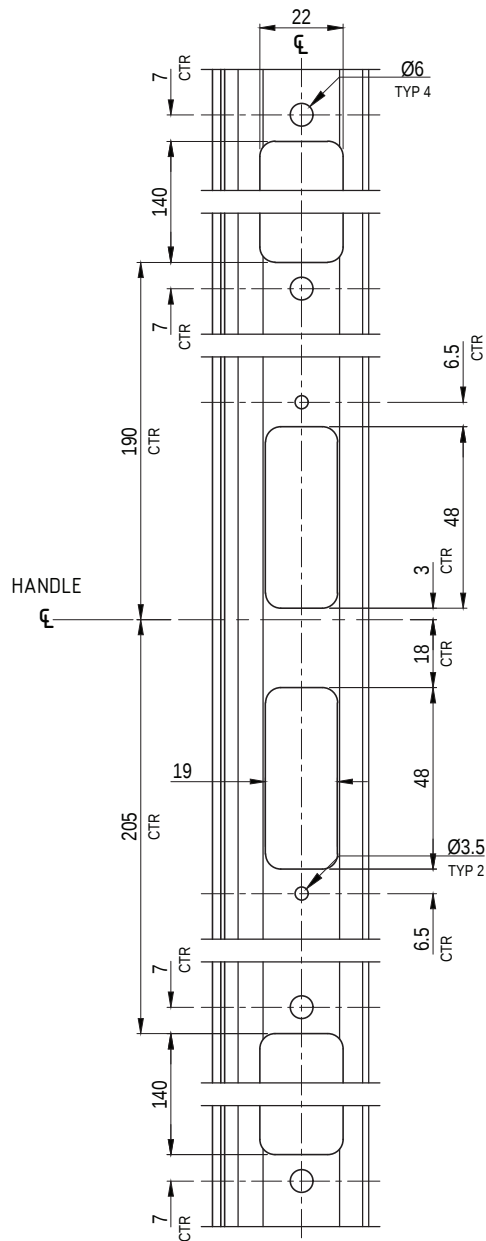
ETB0010
HINGE STILES



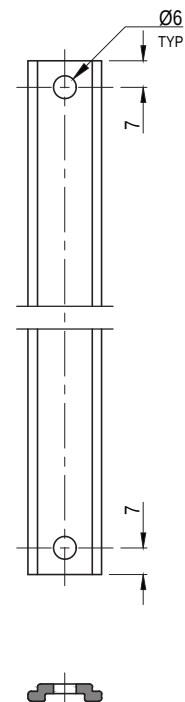
VARIOUS
JAMBS & DOOR STOPS



VARIOUS
HEADS



EPD0021
EURO BAR
FLUSH BOLT ADAPTOR ONLY

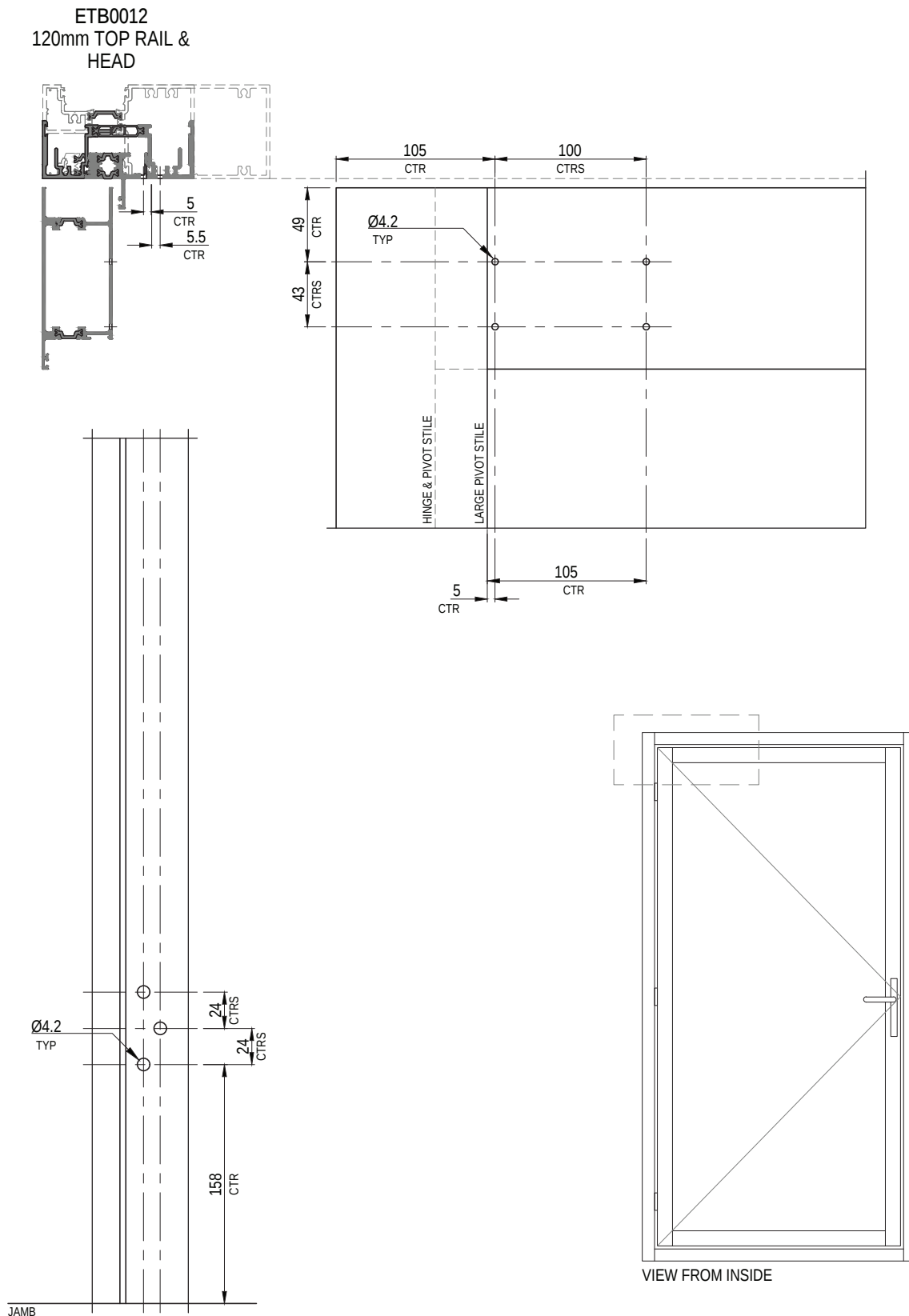


EPD0021
EURO BAR

Please read in conjunction with Important Conditions – Index (also available on Capral website)

Machining - 7726 Arm Door Closer

Scale 1:4

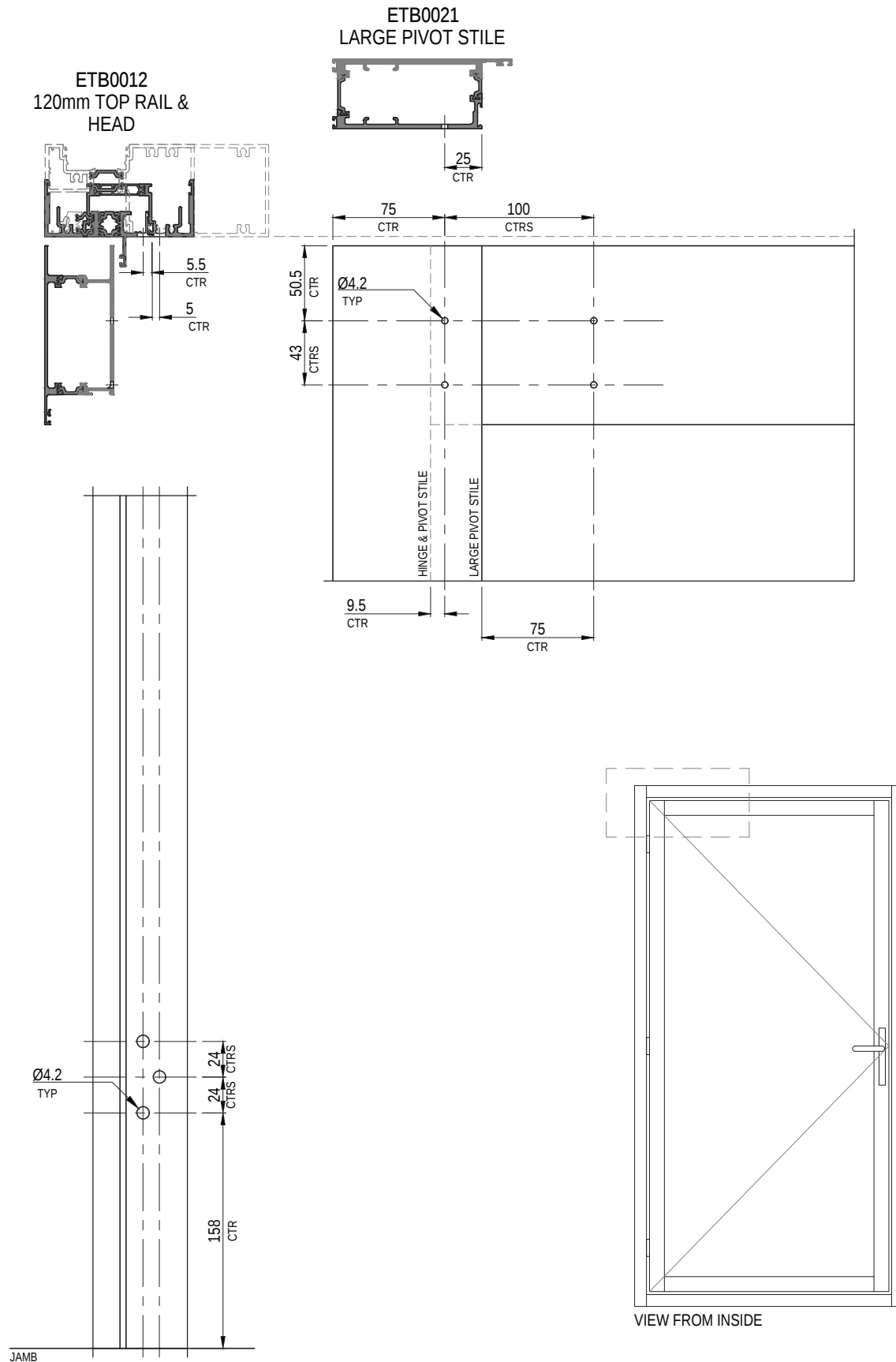


Please read in conjunction with Important Conditions – Index (also available on Capral website)

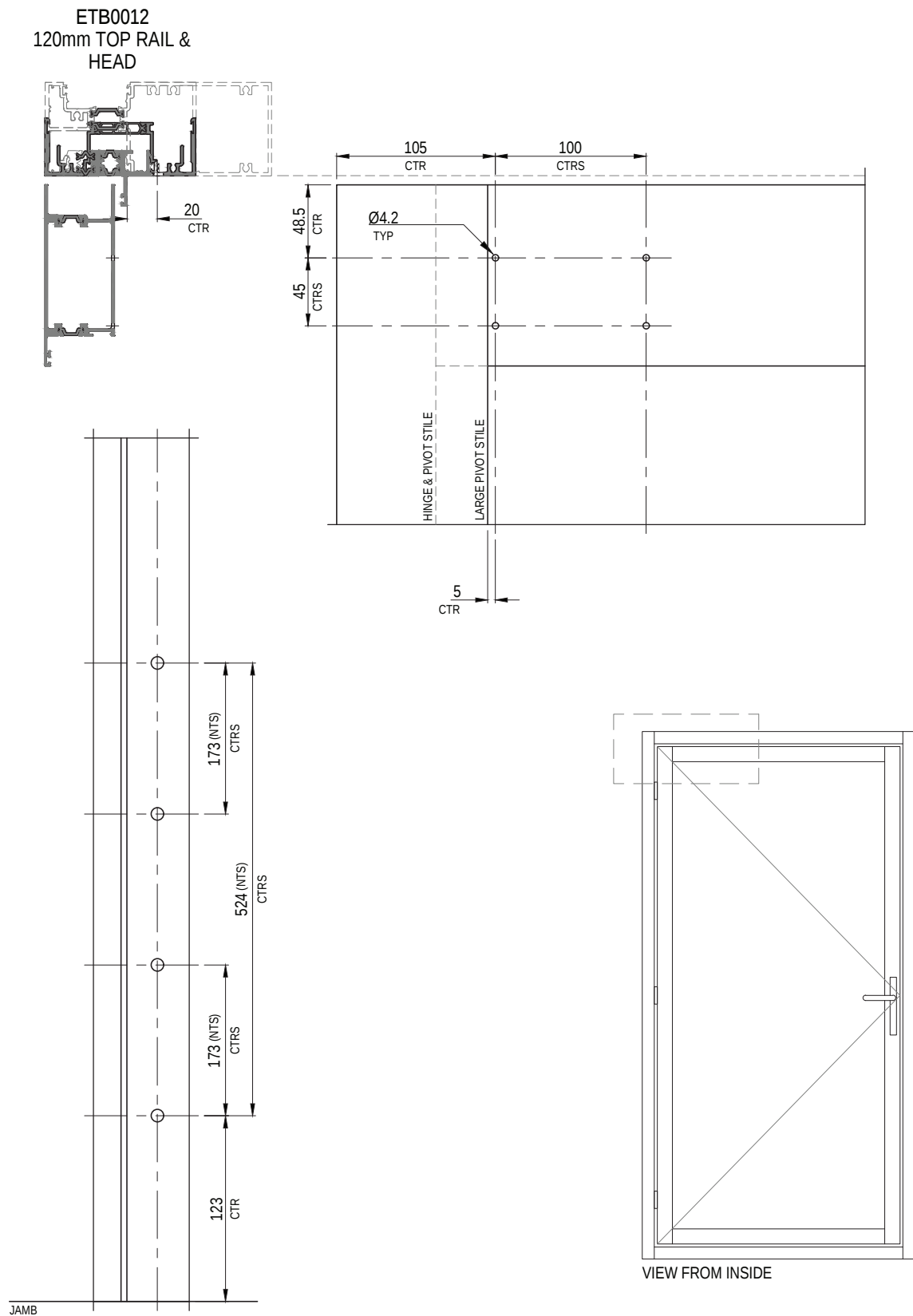
Hinged Door

Machining - 7714 Arm Door Closer

Scale 1:4



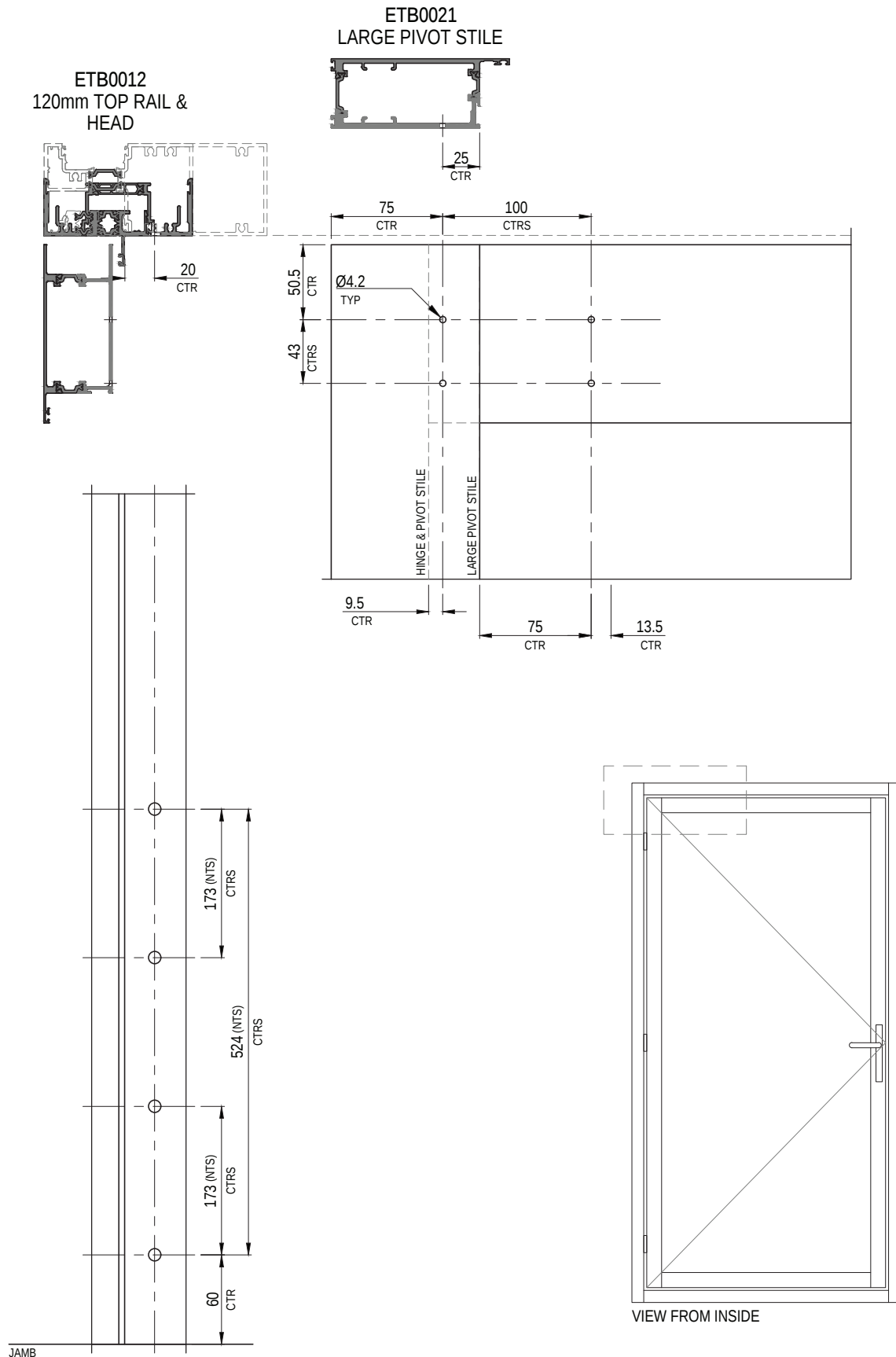
Please read in conjunction with Important Conditions – Index (also available on Capral website)



Hinged Door

Machining - 7714 Slide Track Door Closer

Scale 1:4



Please read in conjunction with Important Conditions – Index (also available on Capral website)