

For external folding timber doors
weighing up to 80kg

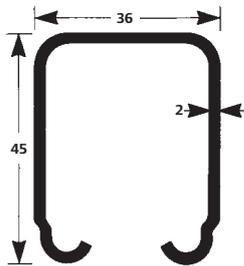
Tangent Folding System No.	290S	301S	301HS	305S
FINISH	STANDARD	STANDARD	STANDARD	STANDARD
Maximum Folding Leaf Height	2400mm	3300mm	3600mm	4500mm
Maximum Folding Leaf Weight	35kg	55kg	70kg	80kg
Maximum Folding Leaf Width	900mm	900mm	900mm	900mm
Leaf Thickness	35-50mm	45-55mm	45-55mm	45-55mm
Track Equal to width of opening (extra if doors slide further) Available lengths: 2, 3, 4 & 6m	290	301	301H	305
Brackets - face fixed	1A/290	1A/301	1A/301	1/305
Brackets - soffit fixed	3A/290	3A/301	3A/301	3A/305
Fix every 900mm max and at track joints Fix extra bracket where leaves stack				
Hangers 1 every 2 leaves				
Intermediate leaves	62K	62A	62A	62C
End Leaf	63K	63C	63A	63C
Guides - 1 every 2 leaves				
Intermediate Leaves	67/89	67/97	67/97	67C/97
End Leaf	68/89	68/97	68/97	68C/97
Channel - Same length as track (Galvanised steel)	89	97	97	97
Handles 1 every 2 leaves	463	463	463	463
Bolt 1 every 2 leaves	994	994	994	994

No more than 8 leaves should be hinged together, and can be hinged to jamb or floating.

A swinging pass door is obtained by using 3 or 5 leaves hinged to jamb, or an independently hung leaf. For doors over 3000mm high a wicket door is recommended.

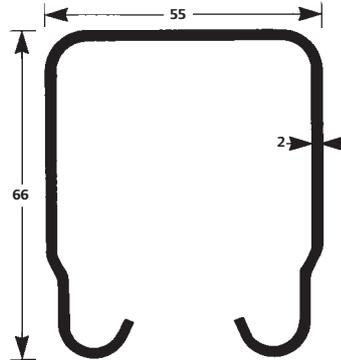
Use four hinges per leaf where panel height exceeds 3000mm.

All dimensions in mm



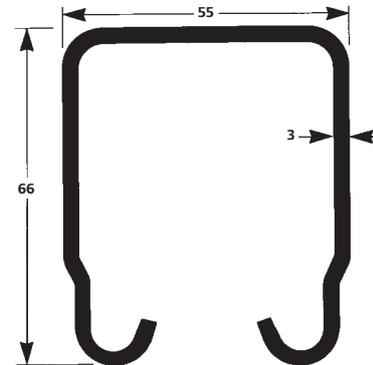
290 Track

Galvanised steel, lengths available in 2000mm, 3000mm, 4000mm and 6000mm



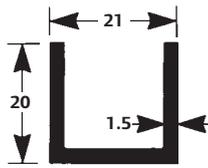
301

Galvanised steel, lengths available in 2000mm, 3000mm, 4000mm and 6000mm



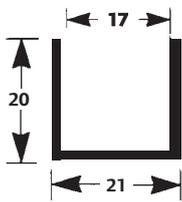
301H

Galvanised steel, lengths available in 2000mm, 3000mm, 4000mm and 6000mm



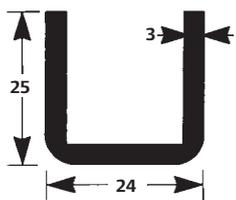
94 Channel

Brass, lengths available in 1500mm and 3000mm



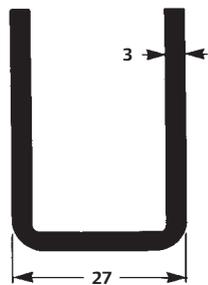
94X Channel

Aluminium - mill finish, lengths available in 2000mm, 3000mm, 4000mm and 6000mm



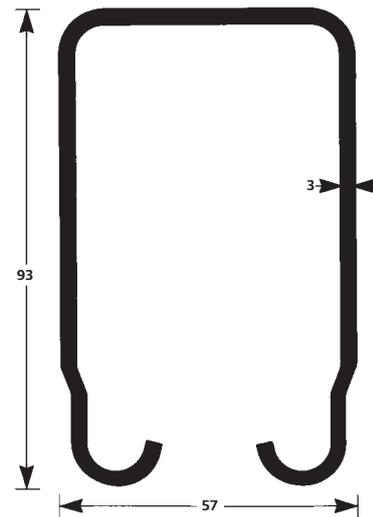
89 Channel

Galvanised steel, lengths available in 2000mm, 3000mm, 4000mm and 6000mm



97 Channel

Galvanised steel, lengths available in 2000mm, 3000mm, 4000mm and 6000mm



305

Galvanised steel, lengths available in 2000mm, 3000mm, 4000mm and 6000mm

All dimensions in mm

Application

- ▶ For residential and commercial folding partitions where weather proofing to the head and sill of the opening may be required.
- ▶ To accommodate different building designs leaves can fold to one or both sides of the opening and can be stacked behind a reveal if required.
- ▶ To cover any width of opening, any number of folding units can be used.
- ▶ Where doors are fitted externally, a canopy is recommended.

Door Specification

Max Leaf Height	2400mm
Max Leaf Weight	35kg
Max Leaf Width	900mm
Leaf Thickness	35-50mm

Folding units of up to eight leaves can be hinged to post or free-floating.

A swinging access door can be included within a unit hinged to post incorporating an odd number of leaves.

Alternatively, an access door can be independently hinged to post.

Floating units should always consist of an even number of leaves in units of four, six or eight.

Clearance between leaves to be 2mm minimum.

Door leaves should be constructed to provide secure fixing for hanger, hinges and guides.

Gear Specification

Track:	290
Material:	Galvanised steel.
Standard lengths:	2000mm, 3000mm, 4000mm and 6000mm.

Brackets:

Face fixing	1A/290	Aluminium alloy pressure die casting
Soffit fixing	3A/290	Aluminium alloy pressure die casting

Brackets for special applications are available (see overleaf).

Fix at 900mm centres (maximum). Fix additional bracket where folding units stack.

Hangers:

Intermediate hangers:	62K
End hanger:	63K

Hangers are fitted with steel wheels on sintered bush bearings.

Vertical adjustment is simple and positive.

Guides:

Intermediate guide:	67/89
End guide:	68/89

Hinges:

Back-flap	65	Aluminium alloy
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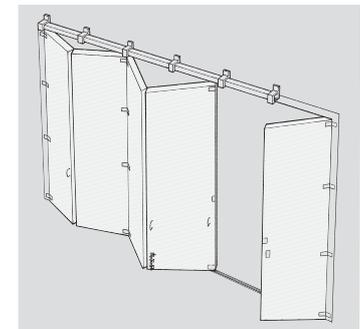
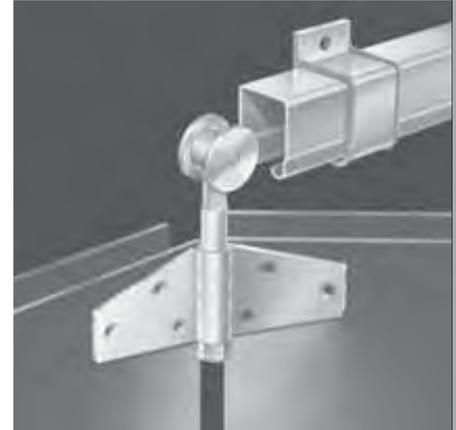
Fit three hinges.

All steel parts to hangers, guides and hinges are electro-zinc plated.

Channel:	89	Galvanised steel
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Standard lengths correspond with standard track lengths.

Optional Extras: Bow Handles, Flush Pulls, Bolts and Locks.



Application

- ▶ For residential and commercial folding partitions where weather proofing to the head and sill of the opening may be required.
- ▶ To accommodate different building designs leaves can fold to one or both sides of the opening and can be stacked behind a reveal if required.
- ▶ To cover any width of opening, any number of folding units can be used.
- ▶ Where doors are fitted externally, a canopy is recommended.

Door Specification

	301	301H
Max Leaf Height	3300mm	3600mm
Max Leaf Weight	55kg	70kg
Max Leaf Width	900mm	900mm
Leaf Thickness	45-55mm	45-55mm

Folding units of up to eight leaves can be hinged to post or free-floating.

A swinging access door can be included within a unit hinged to post under 3000mm high by incorporating an odd number of leaves.

On openings above 3000mm high, units should consist of an even number of leaves and access doors should either be a separate independent swing door or a wicket door in one of the folding leaves.

Floating units should always consist of an even number of leaves in units of four, six or eight. Clearance between leaves to be 2mm minimum.

Door leaves should be constructed to provide secure fixing for hanger, hinges and guides.

Gear Specification

Track: 301 (2mm thickness) or 301H (3mm thickness)
Material: Galvanised steel.
Standard lengths: 2000mm, 3000mm, 4000mm and 6000mm.

Brackets:
 Face fixing 1A/301 Aluminium alloy pressure die casting
 Soffit fixing 3A/301 Aluminium alloy pressure die casting
 Brackets for special applications are available (see overleaf).

Fix at 900mm centres (maximum). Fix additional bracket where folding units stack.

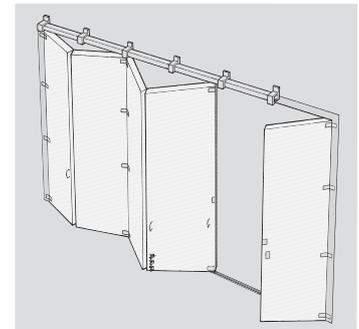
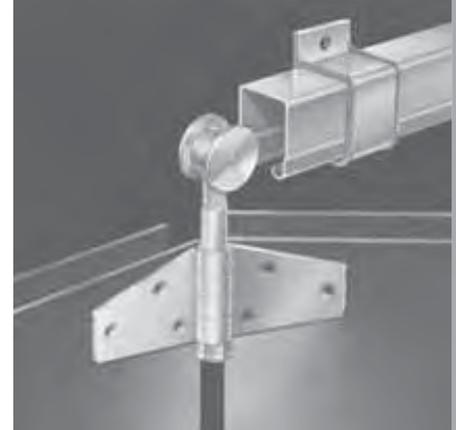
Hangers:
 Intermediate hangers: 62A
 End hanger: 63A
 Hangers are fitted with steel wheels on maintenance free sealed for life precision ball bearings. Vertical adjustment is simple and positive.

Guides:
 Intermediate guide: 67/97
 End guide: 68/97

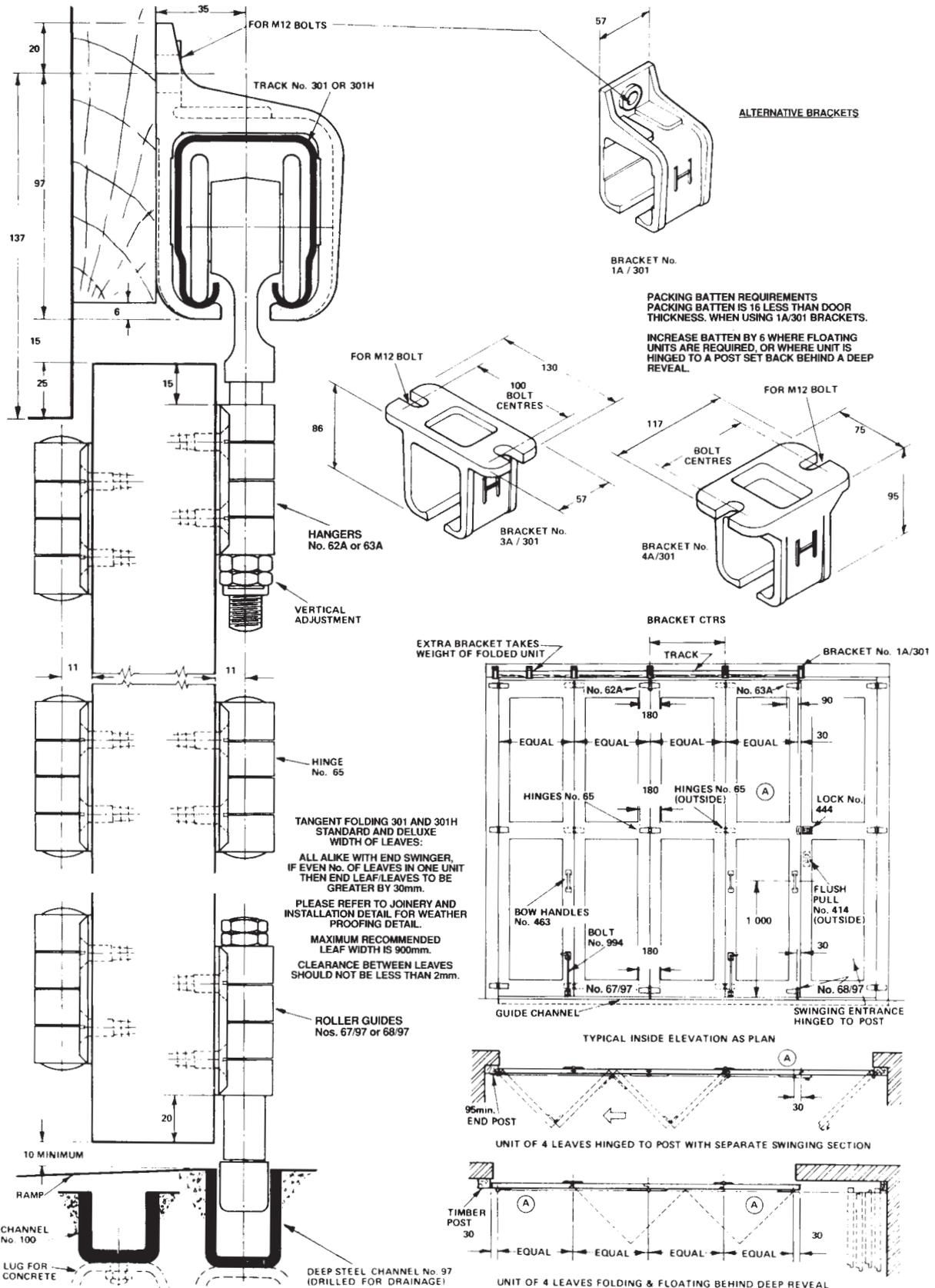
Hinges:
 Back-flap 65 Aluminium alloy
 For leaves up to 3300mm high fit 3 hinges, leaves above 3300mm fit 4 hinges.
 All steel parts to hangers, guides and hinges are electro-zinc plated.

Channel: 97 Galvanised steel
 Standard lengths correspond with standard track lengths.

Optional Extras: Bow Handles, Flush Pulls, Bolts and Locks.



Fitting Instructions:



TANGENT FOLDING 301 AND 301H STANDARD AND DELUXE WIDTH OF LEAVES:
ALL ALIKE WITH END SWINGER. IF EVEN NO. OF LEAVES IN ONE UNIT THEN END LEAF/LEAVES TO BE GREATER BY 30mm.
PLEASE REFER TO JOINERY AND INSTALLATION DETAIL FOR WEATHER PROOFING DETAIL.
MAXIMUM RECOMMENDED LEAF WIDTH IS 900mm.
CLEARANCE BETWEEN LEAVES SHOULD NOT BE LESS THAN 2mm.

All dimensions in mm

Application

- ▶ Widely used in commercial, industrial and agricultural applications where robust gear is required.
- ▶ To cover any width of opening, any number of doors can be used on single or multiple lines of track.
- ▶ To accommodate different building designs, doors can slide to one or both sides.
- ▶ A wicket door for easy access may be incorporated into a sliding door.
- ▶ Where doors are fitted externally, a canopy is recommended.

Door Specification

Max Door Height	4500mm
Max Door Weight Steel Hanger	80kg
Door Thickness	43-57mm
Max Leaf Width	900mm

Folding units of up to eight leaves can be hinged to post or free-floating.

A swinging access door can be included within a unit hinged to post under 3000mm high by incorporating an odd number of leaves.

On openings above 3000mm high, units should consist of an even number of leaves and access doors should either be a separate independent swing door or a wicket door in one of the folding leaves.

Floating units should always consist of an even number of leaves in units of four, six or eight. Clearance between leaves to be 2mm minimum.

Door leaves should be constructed to provide secure fixing for hanger, hinges and guides.

Gear Specification

Track:	305 (3mm thickness)	
For single track (face fixing)	1A/305	Aluminium alloy pressure die casting
For double track (face fixing)	5/305	Aluminium alloy pressure die casting
For single track (soffit fixing)	3A/305	Aluminium alloy pressure die casting.

Fix at every 900mm centres (maximum).

Brackets:		
Face fixing	1A/290	Aluminium alloy pressure die casting
Soffit fixing	3A/290	Aluminium alloy pressure die casting

Brackets for special applications are available (see overleaf).
Fix at 900mm centres (maximum). Fix additional bracket where folding units stack.

Hangers:		
Intermediate hanger	62c	
End hanger	63c	

Hangers are fitted with steel wheels on maintenance free sealed for life precision ball bearings. Vertical adjustment is simple and positive.

Guides:		
Intermediate guide:	67c/97	
End guide:	68c/97	

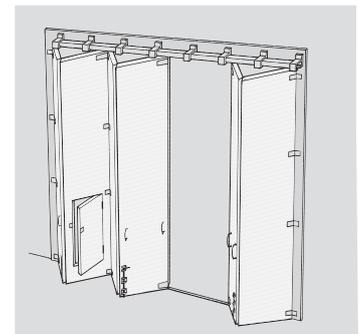
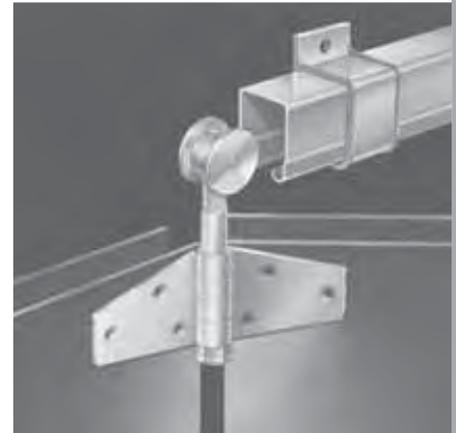
For leaves up to 3300mm in height fit 3 hinges, leaves above 3300mm fit 4 hinges. All steel parts to hinges are electro-zinc plated.

Hinges:		
Back-flap	65c	Aluminium alloy

Fit three hinges.

All steel parts to hangers, guides and hinges are electro-zinc plated.		
Channel:	97	Galvanised steel

Standard lengths correspond with standard track lengths.
Optional Extras: Bow Handles, Flush Pulls, Bolts and Locks.

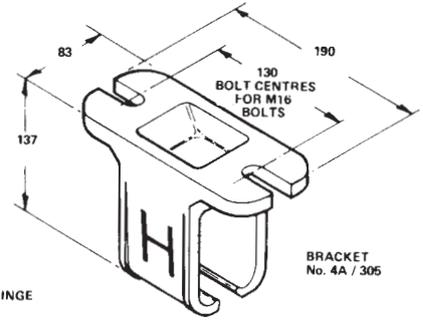
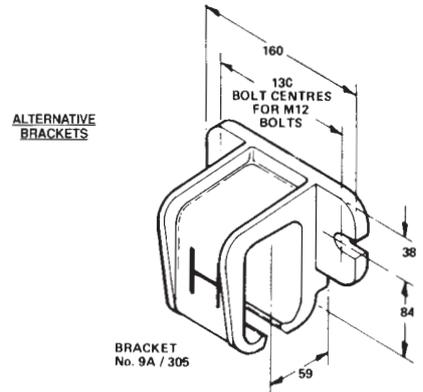
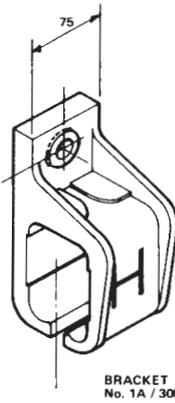
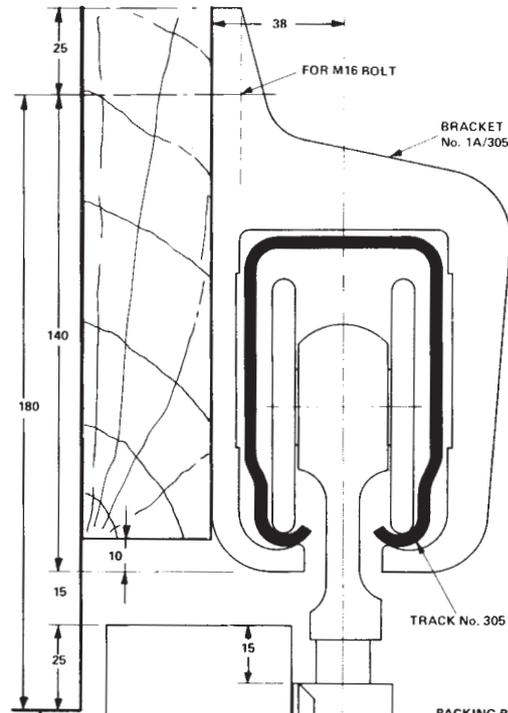


Tangent Folding 305

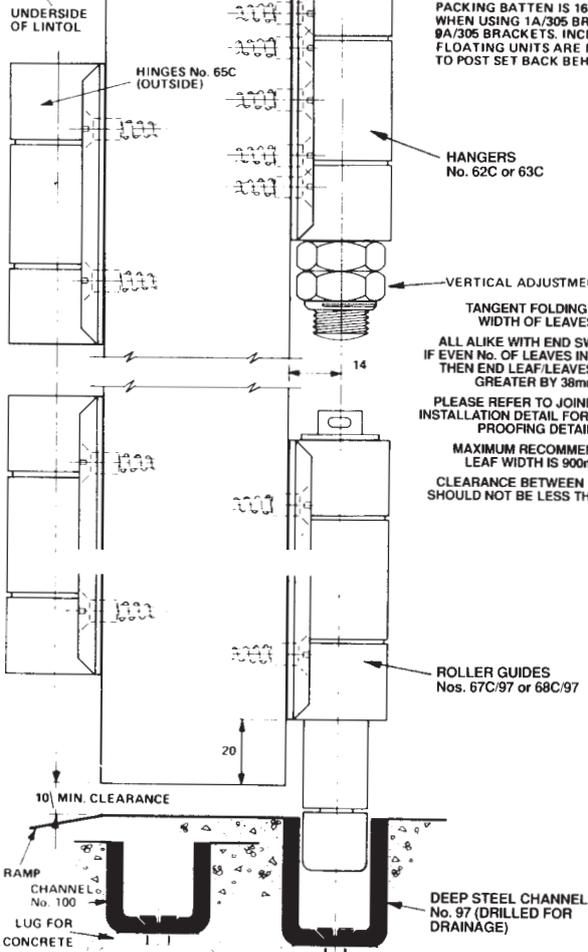
Folding doors up to 80kg per leaf

Industrial Folding Door Gear - up to 80kg per leaf

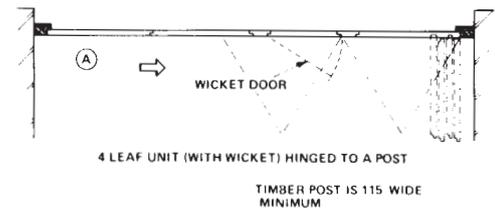
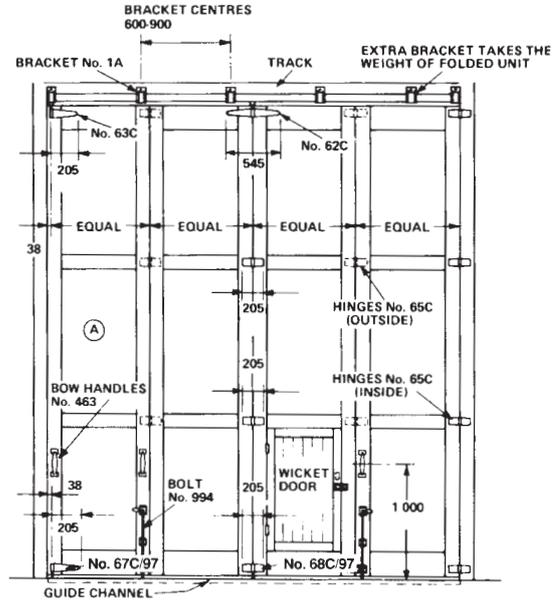
Fitting Instructions:



PACKING BATTEN REQUIREMENTS
 PACKING BATTEN IS 16 LESS THAN DOOR THICKNESS WHEN USING 1A/305 BRACKETS AND 35 LESS FOR 9A/305 BRACKETS. INCREASE BATTEN BY 10 WHERE FLOATING UNITS ARE REQUIRED OR WHERE DOORS HINGE TO POST SET BACK BEHIND DEEP REVEALS.



TANGENT FOLDING 305 WIDTH OF LEAVES:
 ALL ALIKE WITH END SWINGER, IF EVEN No. OF LEAVES IN ONE UNIT THEN END LEAF/LEAVES TO BE GREATER BY 38mm.
 PLEASE REFER TO JOINERY AND INSTALLATION DETAIL FOR WEATHER PROOFING DETAIL.
 MAXIMUM RECOMMENDED LEAF WIDTH IS 900mm.
 CLEARANCE BETWEEN LEAVES SHOULD NOT BE LESS THAN 2mm.



All dimensions in mm