APPLICATION

- Suitable for residential or light commercial folding partitions.
- 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.

DOOR SPECIFICATION

290

For individual leaves:

Max Leaf Height 2700mm
Max Leaf Weight 35 kg
Max Leaf Width 900mm
Leaf Thickness 35-44mm

Folding units of up to eight leaves can be hinged to post.

Floating units consist of four, six or eight leaves.

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

Instruction on leaf width calculation is provided with the Expert Service and Joinery Instruction 1984.

Clearance between leaves to be 2mm minimum.

Door leaves should be constructed to provide secure fixing for the hanger, hinges and guides and can either be flush, panelled or glazed.

GEAR SPECIFICATION

Track:
290 (2mm thickness)

Material: galvanised steel

Standard lengths: 1800mm, 2000mm, 2500mm, 3000mm, 4000mm and 6000mm.

Brackets:
3A/290 aluminium alloy pressure die casting
1A/290 aluminium alloy pressure die casting

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

Hangers:
21K/5 intermediate and end leaves
21K/4S adjacent to swinging access door

Hangers are fitted with steel wheels on a sintered bush bearing.
Vertical adjustment is simple and positive.

Guides:
21KR/94

Hinges:
403/1 butt hinge
Fit three hinges.

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

Channel:
94X aluminium
94 brass

Standard lengths of aluminium channel correspond with standard track lengths. Standard lengths of brass channel are 1500mm and 3000mm.
Pre-drilled and countersunk for wood or lugging into concrete.

ENDFOLD PARTITION COUNCIL 290

Fixing for all brackets M8 bolts or coach screws

Bracket No. 3A/290

16 thick timber pad

Track No. 290

Bracket No. 4A/290

Alternative brackets

Bracket No. 4A/290

Hanger No. 21K/N (2 wheels) or No. 21K/4N (4 wheels - fitted next to a swinging leaf for extra stability)

Fixing for all brackets M8 bolts or coach screws

Extra bracket where door folds

Section scale 1:2

Butts No. 403

89 x 50

Butts centre of pintle is offset 6 from face of doors. Exception butts on door posts are fixed without offset.

Endfold partition 290

Width of leaves

All leaves except pivot leaf hinged to post, which must be less than half door thickness plus 2mm.

Please read the installation detail prior to cutting door leaves.

Leaves of floating units are all of equal widths.

A floating unit must be 4, 6 or 8 leaves.

Maximum recommended leaf width is 900mm.

Clearance between leaves should not be less than 2mm.

Channel No. 94

Or 94 in a reversible cell

Typical elevation as plan

Tongue and groove joints

These joints, with hardwood tongues are recommended

Note: no offset to butts on post

Separate swing leaf hinged to post

Flush pulls

No. 400

Swinging leaf

Mortice lock

No. 408

Lever handles

No. 409

Min. stile width 114 thick

Nose 35

Or block for lock

Typical plan

Bolt and pull pull

Plan

4 leaves hinged to post with separate "drawer" as plan 2

Separate swing leaf hinged to post
APPLICATION

- Suitable for residential and commercial folding partitions.
- 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.

DOOR SPECIFICATION

<table>
<thead>
<tr>
<th>301</th>
<th>301H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Leaf Height</td>
<td>3300mm</td>
</tr>
<tr>
<td>Max Leaf Weight</td>
<td>55 kg</td>
</tr>
<tr>
<td>Max Leaf Width</td>
<td>900mm</td>
</tr>
<tr>
<td>Leaf Thickness</td>
<td>44-57mm</td>
</tr>
</tbody>
</table>

Folding units of up to eight leaves can be hinged to post.

Floating units consist of four, six or eight leaves.

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.

Instruction on leaf width calculation is provided with the Expert Service and Joinery Instruction 1839.

Clearance between leaves to be 2mm minimum.

Door leaves should be constructed to provide secure fixing for the hanger, hinges and guides and can either be flush, panelled or glazed.

GEAR SPECIFICATION

Track:
- 301 (2mm thickness) or 301H (3mm thickness)
- Material: galvanised steel
- Standard lengths: 1800mm, 2000mm, 2500mm, 3000mm, 4000mm and 6000mm.

Brackets:
- soffit fixing 3A/301 aluminium alloy pressure die casting
- face fixing 1A/301 aluminium alloy pressure die casting

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

Hangers:
- 21A/5 intermediate and end leaves
- 21A/45 adjacent to swinging access door

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

Guides:
- 21R/94

Hinges:
- 403/2 butt hinge
On leaves up to 3000mm high fit 3 hinges, above 3000mm fit 4 hinges.

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

Channel:
- 94X aluminium
- 94 brass
Standard lengths of aluminium channel correspond with standard track lengths. Standard lengths of brass channel are 1500mm and 3000mm.
Pre-drilled and countersunk for wood or lugging into concrete.

Accessories:
- Flush Pulls, Flush Bolts and Locks.
**APPLICATION**

- Suitable for heavier residential and commercial folding partitions.
- 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.

**DOOR SPECIFICATION**

**305**

For individual leaves:

- Max Leaf Height: 4500mm
- Max Leaf Weight: 80 kg
- Max Leaf Width: 900mm
- Leaf Thickness: 44-57mm

Folding units of up to eight leaves can be hinged to post.

Floating units consist of four, six or eight leaves.

Access doors should be either a separate swing door or a wicket door in one of the folding leaves.

Instruction on leaf width calculation is provided with the Expert Service and Joinery Instruction 1839.

Clearance between leaves to be 2mm minimum.

Door leaves should be constructed to provide secure fixing for the hanger, hinges and guides and can either be flush, paneled or glazed.

**GEAR SPECIFICATION**

<table>
<thead>
<tr>
<th>Track:</th>
<th>305 (3mm thickness)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material:</td>
<td>galvanized steel</td>
</tr>
<tr>
<td>Standard lengths:</td>
<td>1800mm, 2000mm, 2500mm, 3000mm, 4000mm and 6000mm.</td>
</tr>
</tbody>
</table>

**Brackets:**

- soffit fixing: 3A/305 aluminium alloy pressure die casting
- face fixing: 1A/305 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:**

- 21C/S intermediate and end leaves

Hangers are fitted with steel wheels on maintenance free sealed for life precision ball bearings.

**Hinges:**

- 403/3 butt hinge

On leaves up to 3000mm high fit 3 hinges, above 3000mm fit 4 hinges.

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

**Channel:**

- 94X aluminium
- 94 brass

Standard lengths of aluminium channel correspond with standard track lengths. Standard lengths of brass channel are 1500mm and 3000mm.

Pre-drilled and countersunk for wood or lagging into concrete.

**Accessories:**

- Flush Pulls, Flush Bolts and Locks.
**APPLICATION**

- Suitable for residential and light commercial folding partitions.
- Leaves can fold to one or both sides of the opening.
- Pivot gear enables a folding internal partition to be designed with standard width door leaves and no cutting down of the leaf adjacent to post.
- To cover any width of opening, any number of folding units can be used.

**DOOR SPECIFICATION**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>290</td>
<td></td>
</tr>
<tr>
<td>For individual leaves</td>
<td></td>
</tr>
<tr>
<td>Max Leaf Height</td>
<td>2700mm</td>
</tr>
<tr>
<td>Max Leaf Weight</td>
<td>35 kg</td>
</tr>
<tr>
<td>Max Leaf Width</td>
<td>900mm</td>
</tr>
<tr>
<td>Leaf Thickness</td>
<td>35-44mm</td>
</tr>
</tbody>
</table>

The folding unit is not hinged to post, but is pivoted in the track and off the floor. The distance from the edge of the leaf to the pivot set equals the distance from the edge of the leaf to the hanger pendant.

Folding units of up to eight leaves can be pivoted; floating units consist of four, six or eight leaves.

A swinging access door can be included within a pivoted unit by incorporating an odd number of leaves.

Clearance between leaves to be 2mm minimum.

Door leaves should be constructed to provide secure fixing for the hanger, hinges and guides and can either be flush, panelled or glazed.

**GEAR SPECIFICATION**

<table>
<thead>
<tr>
<th>Gear Type</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track: 290</td>
<td>2mm thickness</td>
</tr>
<tr>
<td>Material:</td>
<td>galvanised steel</td>
</tr>
<tr>
<td>Standard lengths:</td>
<td>1800mm, 2000mm, 2500mm, 3000mm, 4000mm and 6000mm.</td>
</tr>
<tr>
<td>Brackets:</td>
<td></td>
</tr>
<tr>
<td>Soffit fixing</td>
<td>3A/290 aluminium alloy pressure die casting</td>
</tr>
<tr>
<td>Face fixing</td>
<td>1A/290 aluminium alloy pressure die casting</td>
</tr>
<tr>
<td>Fix at 900mm centres (maximum). Fix additional brackets where folding units stack.</td>
<td></td>
</tr>
<tr>
<td>Hangers:</td>
<td></td>
</tr>
<tr>
<td>Intermediate and end leaves</td>
<td>2IK/45</td>
</tr>
<tr>
<td>Adjacent to swinging access door</td>
<td>2IK/P</td>
</tr>
<tr>
<td>Hangers are fitted with steel wheels on sintered bush bearings. Vertical adjustment is simple and positive.</td>
<td></td>
</tr>
<tr>
<td>Guides:</td>
<td></td>
</tr>
<tr>
<td>Top and bottom pivots</td>
<td>2IR/94</td>
</tr>
<tr>
<td>Hinges:</td>
<td>403/1</td>
</tr>
<tr>
<td>Fit 3 hinges high.</td>
<td></td>
</tr>
<tr>
<td>All steel parts to hangers and guides are electro-zinc plated.</td>
<td></td>
</tr>
<tr>
<td>Channel:</td>
<td></td>
</tr>
<tr>
<td>Aluminium</td>
<td>94X</td>
</tr>
<tr>
<td>Brass</td>
<td>94</td>
</tr>
<tr>
<td>Standard lengths of aluminium channel correspond with standard track lengths. Standard lengths of brass channel are 1500mm and 3000mm. Pre-drilled and countersunk for wood or lugging into concrete.</td>
<td></td>
</tr>
<tr>
<td>Accessories:</td>
<td></td>
</tr>
<tr>
<td>Flush Pulls, Flush Bolts and Locks.</td>
<td></td>
</tr>
</tbody>
</table>
APPLICATION

► Suitable for residential and commercial folding partitions.
► Leaves can fold to one or both sides of the opening.
► Pivot gear enables a folding internal partition to be designed with standard width door leaves and no cutting down of the leaf adjacent to post.
► To cover any width of opening, any number of folding units can be used.

DOOR SPECIFICATION

A folding unit is not hinged to post, but is pivoted in the track and off the floor. The distance from the edge of the leaf to the pivot set equals the distance from the edge of the leaf to the hanger pendant.

Folding units of up to eight leaves can be pivoted; floating units consist of four, six or eight leaves.

A swinging access door can be included within a pivoted unit 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.

Door leaves should be constructed to provide secure fixing for pivot sets, hangers, hinges and guides and can either be flush, panelled or glazed.

GEAR SPECIFICATION

Track: 301 (2mm thickness) 301H (3mm thickness)
Material: galvanised steel
Standard lengths: 1800mm, 2000mm, 2500mm, 3000mm, 4000mm and 6000mm.

Brackets:
soffit fixing: 3A/301 aluminium alloy pressure die casting
face fixing: 1A/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:
21A/IS intermediate and end leaves
21A/AS adjacent to swinging access door
Hangers are fitted with steel wheels on maintenance free sealed for life precision ball bearings. Vertical adjustment is simple and positive.

Guides:
21R/94

Hinges:
403/2 butt hinge

On leaves up to 3000mm high fit 3 hinges, above 3000mm fit 4 hinges.

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

Channel:
94X aluminium
94 brass

Standard lengths of aluminium channel correspond with standard track lengths. Standard lengths of brass channel are 1500mm and 3000mm.

Pre-drilled and countersunk for wood or lugging into concrete.

APPLICATION

- Suitable for residential and lighter/smaller commercial folding partitions.
- Leaves are hung centrally under the lintel and can fold to one or both sides of the opening.
- To cover any width of opening, any number of folding units can be used.

DOOR SPECIFICATION

290

For individual leaves:
- Max Leaf Height: 2700mm
- Max Leaf Weight: 35 kg
- Max Leaf Width: 1000mm
- Leaf Thickness: 35-44mm

Folding units of up to seven full leaves and one half leaf can be hinged to post.

Floating units consist of three, five or seven full leaves.

Access doors should be either a separate swing door or a wicket door in one of the folding leaves.

All full leaves should be of an equal width. Instruction on leaf width calculation for full and half leaf are provided with the Expert Service and Joinery Instruction 2528.

Clearance between leaves to be 2mm minimum.

Door leaves should be constructed to provide secure fixing for hanger, hinges and guides and can be flush, panelled or glazed.

GEAR SPECIFICATION

Track: 290 (2mm thickness)
Material: galvanised steel
Standard Lengths: 1800mm, 2000mm, 2500mm, 3000mm, 4000mm and 6000mm

Brackets:-
- 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:- 61K/S
- Hangers are fitted with steel wheels on sintered bush bearings.
- Vertical adjustment is simple and positive.

Guides:- 106R/94
- Hinges:- 403/1 butt hinge
- Fit three hinges high.
- All steel parts to hangers and guides are electro-zinc plated.

Channel: 94X aluminium
- 94 brass
- Standard lengths of aluminium channel correspond with standard track lengths, standard lengths of brass channel are 1500mm and 3000mm. Pre-drilled and countersunk for wood or lugging into concrete.

CENTREFOLD PARTITION COUNCIL 290

PLEASE REFER TO JOINERY AND INSTALLATION DETAIL PRIOR TO CUTTING DOOR LEAVES.

MAXIMUM RECOMMENDED LEAF WIDTH IS 1000mm.

CLEARANCE BETWEEN LEAVES SHOULD NOT BE LESS THAN 2mm.

CENTRE FOLD PARTITION 290

ROLLERS TO POST

OFFSET TONGUE AND GROOVE (AND ALSO BUTTS) OBVIATES CUTTING TONGUES

CENTRAL TONGUES MUST BE CUT AROUND BUTTS

5¼ LEAVES HINGED TO POST AS PLAN 1

3½ LEAVES HINGED TO POST AS PLAN 2

CENTRE LINE OF TRACK

TONGUE AND GROOVE JOINTS. THESE JOINTS, WITH HARDWOOD TONGUES ARE RECOMMENDED.

REBATED JOINTS - IF REBATING IS PREFERRED IT MUST BE TO LAYOUT ABOVE

CHANNEL No. 94 OR 94X IN A REVERSIBLE CILL

P.C.HENDERSON LIMITED, DURHAM ROAD, BOWBURN, CO. DURHAM, DH6 5NG, ENGLAND TELEPHONE: 0191 377 0701 FACSIMILE: 0191 377 1309