GLASS PREPARATION

Patch Fittings
MP70 – Over panel with two optional Stops Patch Fitting
SKU Reference: 301120, 301121, 301122

Patch Fittings
MP40 – Over Panel to Side Panel Patch Fitting
SKU Reference: 301107, 301108, 301109

Patch Fittings
MP41 – Over Panel to Side Panel with Fin Patch Fitting
SKU Reference: 301110, 301111, 301984, 301113, 301114, 301112

Patch Fittings
MP100 – Bottom Patch Lock
SKU Reference: 500437, 500463, 500464, 500459, 500460, 500461

Patch Fittings
MP200 & MP220 – Centre Patch Lock/ Centre Patch Keeper
SKU Reference: 501170, 501172, 501171, 500297, 500465, 500435, 301101, 301102, 301103

Patch Fittings
MP10 / MP20 / MP22 / MP34* – Bottom Patch Fitting/Top Patch Fitting/Over Panel to Wall Patch Fitting Kit
SKU Reference: 301083, 301084, 301085, 301092, 301093, 301094, 301098, 301099, 301100, 500434, 500436, 500296
**Patch Fittings**

**MP61 – Over Panel to Side Panel with Optional Stop Patch Fitting**

SKU Reference: 301117, 301118, 301119

**Patch Fittings**

**MP10, MP20, MP100 – Door Panel Bottom Locking**

Typical Schematic Overview

**Patch Fittings**

**Ozone – Door Panel Centre & Bottom Locking**

Typical Schematic Overview

**Patch Fittings**

**MP40, MP41 – Overlight Panel Between Side Lights**

Typical Schematic Overview
GLASS PREPARATION

Patch Fittings
MP40, MP41 – Side Light for Over Lights
Typical Schematic Overview

Metro MRS90 - Sliding Door System
Bottom Rolling
SKU Reference: 500033, 500034, 500619, 500820

GLASS PREPARATION

Sienna SN120
Tubular Sliding Door System
SKU Reference: 501140, 501139, 501138, 501137

NOTE: Both end brackets must be set in 150mm from the bar ends

Glass to Wall

Fixed Glass to Wall

Wall bracket 1/25SN or glass bracket 1/25SN

Floor guide 8-12/2N

Max glass panel thickness = 2500mm

OW = PW - 80mm

(Toughened glass)

NOTE: Both end brackets must be set in 150mm from the bar ends

Max glass panel height = 2500mm

OW = PW - 80mm

(PW)

For reference estimated glass weights are: 8mm = 20kg/m² - 10mm = 25kg/m² - 12mm = 30kg/m²

Fixing Glass to Glass

Max glass panel height = 2500mm

OW = PW - 80mm

(PW)
GLASS PREPARATION

Linear 100 - Sliding Door System
Bottom Rolling
SKU Reference: 500019, 500697, 500020, 500698, 500021, 500699

![Diagram of Linear 100 - Sliding Door System]

X = height of door which is finished opening height less 35mm
Note: Allow for selected handle glass preparation

Linear 153 - Sliding Door System
Bottom Rolling
SKU Reference: 500022, 500700, 500023, 500701, 500024, 500702

![Diagram of Linear 153 - Sliding Door System]

X = height of door which is finished opening height less 35mm
Note: Allow for selected handle glass preparation

GLASS PREPARATION

Ozone Plus EN3
FH100 – Standard Strength Hydraulic Patch
SKU Reference: 301076, 301077, 301762, 301763

![Diagram of Ozone Plus EN3]

12mm clearance to floor level
The edges of the radius should tipped or R5

Ozone Plus EN5
FH105 – High Strength Hydraulic Patch
SKU Reference: 301078, 301080, 301764, 301765

![Diagram of Ozone Plus EN5]

12mm clearance to floor level
The edges of the radius should tipped or R5
GLASS PREPARATION

AGA Slystack/Bi-Fold

Rail Panel

Stamp on bottom edge as shown (*)
Optional fixing holes at bottom edge only if bottom rail requires permanent fixing.

Typical Schematic Overview

![AGA Slystack/Bi-Fold Rail Panel Diagram]

Glass Finishing Key:
ARR: ARRISED
FG: FLAT GRIND
FP: FLAT POLISHED

---

GLASS PREPARATION

Austvision SpiderDoor System

Spider Panel

Stamp on bottom edge as shown (*)
Optional fixing holes at bottom edge only if bottom rail requires permanent fixing.

Typical Schematic Overview

![Austvision SpiderDoor System Spider Panel Diagram]

Glass Finishing Key:
ARR: ARRISED
FG: FLAT GRIND
FP: FLAT POLISHED
Austvision Slydstak & Bi-Folding Door System

Spider Panel

Stamp on bottom edge as shown (*)

Typical Schematic Overview

**OPTIONAL**
\[ \phi \times \text{6mm HINTS WITH 3mm STRESS RELIEF SLOTS} \]

Glass Finishing Key:
- ARR: ARRISSED
- FG: FLAT GRIND
- FP: FLAT POLISHED

Typical Cut Outs/Spider Panel

Glass Finishing Key:
- ARR: ARRISSED
- FG: FLAT GRIND
- FP: FLAT POLISHED
**Glass Preparation**

**Ozone FH 100**

Non Locking

Stamp on bottom edge as shown (*)

1 x MP20 Cutout

1 x FH 100 Cutout

**Typical Schematic Overview**

```plaintext
MP20 PATCH CUTOUT

HANDLE 1
2 x Ø14mm HOLES 1

FH100 CUTOUT

Glass Finishing Key:
ARR: ARRISSED
FS: FLAT GRIND
FP: FLAT POLISHED
```

**Ozone FH 100**

Bottom Locking

Stamp on bottom edge as shown (*)

1 x MP20 Cutout

1 x FH 100 Cutout

1 x MP 100 Cutout

**Typical Schematic Overview**

```plaintext
MP20 PATCH CUTOUT

HANDLE 1
2 x Ø14mm HOLES 1

FH100 CUTOUT

Glass Finishing Key:
ARR: ARRISSED
FS: FLAT GRIND
FP: FLAT POLISHED
```
GLASS PREPARATION

Ozone FH 100
Side Locking

Stamp on bottom edge as shown (*)
1 x MP20 Cutout
1 x FH 100 Cutout
1 x MP 200/220 Cutout

Typical Schematic Overview

Glass Finishing Key:
ARR: ARRISSED
FG: FLAT GRIND
FP: FLAT POLISHED

GLASS PREPARATION

Ozone FH 100
Bottom/Side Locking

Stamp on bottom edge as shown (*)
1 x MP20 Cutout
1 x FH 100 Cutout
1 x MP 100 Cutout
1 x MP 200/220 Cutout

Typical Schematic Overview

Glass Finishing Key:
ARR: ARRISSED
FG: FLAT GRIND
FP: FLAT POLISHED
Ozone FH 105
Non Locking
Stamp on bottom edge as shown (*)
1 x MP20 Cutout
1 x FH 105 Cutout

Typical Schematic Overview

Glass Finishing Key:
ARR: ARRISSED
FG: FLAT GRIND
FP: FLAT POLISHED

Ozone FH 105
Bottom Locking
Stamp on bottom edge as shown (*)
1 x MP20 Cutout
1 x FH 105 Cutout
1 x MP 100 Cutout

Typical Schematic Overview

Glass Finishing Key:
ARR: ARRISSED
FG: FLAT GRIND
FP: FLAT POLISHED
**GLASS PREPARATION**

**Ozone FH 105**

Side Locking

Stamp on bottom edge as shown (*)
1 x MP20 Cutout
1 x FH 105 Cutout
1 x MP 200/220 Cutout

Typical Schematic Overview

---

**Glass Finishing Key:**

ARR: ARRISED
FG: FLAT GRIND
FP: FLAT POLISHED

---

**GLASS PREPARATION**

**Ozone FH 105**

Bottom/Side Locking

Stamp on bottom edge as shown (*)
1 x MP20 Cutout
1 x FH 105 Cutout
1 x MP 100 Cutout
1 x MP 200/220 Cutout

Typical Schematic Overview

---

**Glass Finishing Key:**

ARR: ARRISED
FG: FLAT GRIND
FP: FLAT POLISHED

---
GG150 Glass Glide Sliding Door

Door Panel

Stamp on bottom edge as shown (*)
Optional fixing holes for toughened laminate (less than 12mm t).
Mark door handles as required.

Typical Schematic Overview

Linear 153 Sliding Door System

Door Panel

Stamp on bottom edge as shown (*)
Ø70mm cutout can move from 150mm – 1/8 door width, maximum.

Typical Schematic Overview

Glass Finishing Key:
ARR: ARRISSED
FG: FLAT GRIND
FP: FLAT POLISHED
GLASS PREPARATION

Linear 100 Sliding Door System
Door Panel
Stamp on bottom edge as shown (*)
Ø70mm cutout can move from 150mm – 1/8 door width, maximum.

Typical Schematic Overview

Glass Finishing Key:
ARR: ARRISSED
FG: FLAT GRIND
FP: FLAT POLISHED

GLASS PREPARATION

Metro MF75 Bi-Folding Sliding Door System
Jamb Pivot Panel
Stamp on bottom edge as shown (*)
Refer to M75 Bi-Fold door – Typical dimension key for maximum door size calculations. See Section 3 Frameless Commercial Doors, Page 388

Typical Schematic Overview

Glass Finishing Key:
ARR: ARRISSED
FG: FLAT GRIND
FP: FLAT POLISHED
**Glass Preparation**

**Metro MF75 Bi-Folding Sliding Door System**

Intermediate Panel

Stamp on bottom edge as shown (*)

Refer to M75 Bi-Fold door – Typical dimension key for maximum door size calculations.

Typical Schematic Overview

**GLASS PREPARATION**

**Metro MF75 Bi-Folding Sliding Door System**

Lead Panel – Even Door Set

Stamp on bottom edge as shown (*)

Refer to M75 Bi-Fold door – Typical dimension key for maximum door size calculations.

Mark door handle as required.

Typical Schematic Overview

**Glass Finishing Key:**

ARR: ARROUSED
FS: FLAT GRIND
FP: FLAT POLISHED
**GLASS PREPARATION**

**Metro MF75 Bi-Folding Sliding Door System**

Lead Panel – Uneven Door Set

Stamp on bottom edge as shown (*).

Refer to MF75 Bi-Fold door – Typical dimension key for maximum door size calculations.

Mark door handle as required.

Typical Schematic Overview

```
Glass Finishing Key:
ARR: ARRISSED
FG: FLAT GRIND
FP: FLAT POLISHED
```

---

**GLASS PREPARATION**

**Patch Fitting Pivot Door**

Non Locking

1 x MP20 Cutout

1 x MP10 Cutout

Typical Schematic Overview

```
Glass Finishing Key:
ARR: ARRISSED
FG: FLAT GRIND
FP: FLAT POLISHED
```
GLASS PREPARATION

Patch Fitting Pivot Door

Bottom Locking

1 x MP20 Cutout
1 x MP10 Cutout
1 x MP100 Cutout

Typical Schematic Overview

Glass Finishing Key:

ARR: ARRISSED
FG: FLAT GRIND
FP: FLAT POLISHED

GLASS PREPARATION

Patch Fitting Pivot Door

Side Locking

1 x MP20 Cutout
1 x MP10 Cutout
1 x MP 200/220 Cutout

Typical Schematic Overview

Glass Finishing Key:

ARR: ARRISSED
FG: FLAT GRIND
FP: FLAT POLISHED
**Patch Fitting Pivot Door**

Bottom/Side Locking

- 1 x MP20 Cutout
- 1 x MP10 Cutout
- 1 x MP100 Cutout
- 1 x MP 200/220 Cutout

**Typical Schematic Overview**

**Glass Finishing Key:**

ARR: ARRISSED
FG: FLAT GRIND
FP: FLAT POLISHED

**GLASS PREPARATION**

**Patch Fitting Pivot**

Horizontal dimensions made for typical 3mm gap between door and side panel/supporting structure. Adjust to suit for varying gap if required.

**GLASS PREPARATION**

**Patch Fitting Pivot**

Horizontal dimensions made for typical 3mm gap between door and side panel/supporting structure. Adjust to suit for varying gap if required.
**GLASS PREPARATION**

**Patch Fitting Pivot**

Horizontal dimensions made for typical 3mm gap between door and side panel/supporting structure. Adjust to suit for varying gap if required.

---

**Over Panel**

1 x Top Patch

Flat polish 1 x Long Edge

Stamp on bottom edge as shown (*)

2 x MP34/40/41 cutout.
GLASS PREPARATION

Over Panel
2 x Top Patch
Flat polish 1 x Long Edge
Stamp on bottom edge as shown (*)
2 x MP34/40/41 cutout

Glass Finishing Key:
ARR: ARRISSED
FG: FLAT GRIND
FP: FLAT POLISHED

GLASS PREPARATION

Over Panel
1 x Top Patch + MP61
Flat polish 1 x Long Edge
Stamp on bottom edge as shown (*)
2 x MP34/40/41 cutout
1 x MP61 cutout

Typical Schematic Overview

Glass Finishing Key:
ARR: ARRISSED
FG: FLAT GRIND
FP: FLAT POLISHED
GLASS PREPARATION

Side Panel

For Over Panel

Flat polish 1 x Long Edge
(FP: second long edge if butt jointing to second panel)
Stamp on bottom edge as shown (*)
1 x MP40/41 cutout

Typical Schematic Overview

Glass Finishing Key:
ARR: ARRISED
FG: FLAT GRIND
FP: FLAT POLISHED

GLASS PREPARATION

Side Panel

For Over Panel – Locking

Flat polish 1 x Long Edge
(FP: second long edge if butt jointing to second panel)
Stamp on bottom edge as shown (*)
1 x MP40/41 cutout
1 x MP200/220 cutout

Typical Schematic Overview

Glass Finishing Key:
ARR: ARRISED
FG: FLAT GRIND
FP: FLAT POLISHED
**GLASS PREPARATION**

**Side Panel**
Side Locking

- Flat polish 1 x Long Edge (FP; second long edge if butt jointing to second panel)
- Stamp on bottom edge as shown (*)
- 1 x MP200/220 cutout

Typical Schematic Overview

**Glass Finishing Key:**
- ARR: ARRISSED
- FG: FLAT GRIND
- FP: FLAT POLISHED

**GLASS PREPARATION**

**Side Panel**
Square/Rectangular

- Flat polish 1 x Long Edge
- Stamp on bottom edge as shown (*)

Typical Schematic Overview

**Glass Finishing Key:**
- ARR: ARRISSED
- FG: FLAT GRIND
- FP: FLAT POLISHED
GLASS PREPARATION

Side Panel – Blank
Bottom Raking – Left
Flat polish 1 x Long Edge
Stamp on bottom edge as shown (*)

Typical Schematic Overview

Glass Finishing Key:
ARR: ARRISSED
FG: FLAT GRIND
FP: FLAT POLISHED

GLASS PREPARATION

Side Panel – Blank
Bottom Raking – Right
Flat polish 1 x Long Edge
Stamp on bottom edge as shown (*)

Typical Schematic Overview

Glass Finishing Key:
ARR: ARRISSED
FG: FLAT GRIND
FP: FLAT POLISHED
GLASS PREPARATION

Side Panel – Blank
Top Raking – Left
Flat polish 1 x Long Edge
Stamp on bottom edge as shown (*)

Typical Schematic Overview

Glass Finishing Key:
ARR: ARRISSED
FG: FLAT GRIND
FP: FLAT POLISHED

GLASS PREPARATION

Side Panel – Blank
Top Raking – Right
Flat polish 1 x Long Edge
Stamp on bottom edge as shown (*)

Typical Schematic Overview

Glass Finishing Key:
ARR: ARRISSED
FG: FLAT GRIND
FP: FLAT POLISHED
**GLASS PREPARATION**

### Side Panel – Blank

3 Edge Raking

Flat polish 1 x Long Edge

(FP second long edge if butt jointing to second panel)

Stamp on bottom edge as shown (*)

**Typical Schematic Overview**

---

**Glass Finishing Key:**

ARR: ASSURED

FG: FLAT GRIND

FP: FLAT POLISHED

---

### GLASS PREPARATION

#### Hinged Doors

**MF2-135 Door Hinge**

SKU Reference: 300815, 300816, 301815, 301967

---

**MF2-90 Door Hinge**

SKU Reference: 300817, 300818

---

**MF2-BF Door Hinge**

SKU Reference: 300820, 300821

---
GLASS PREPARATION

Hinged Doors
MF2 Designer Door Hinge
SKU Reference: 300826, 300827

Hinged Doors
MF1 Door Hinge
SKU Reference:
300811
300812
300805
300813
300814
300808
300809
300807
300806

Indicator Locks
For Pivot Doors [Privacy / Locking Options]
SKU Reference: 300940, 300941

Indicator Locks
For Pivot Doors [Privacy / Locking Options]
SKU Reference: 300947
**GLASS PREPARATION**

**Indicator Locks**  
For Pivot Doors [Privacy / Locking Options]  
SKU Reference: 300939, 300942

**Pull Handles Residential**  
H Square L / H Round L  
SKU Reference: 300635, 300636, 300641, 300642

**Indicator Locks**  
For Pivot Doors [Privacy / Locking Options]  
SKU Reference: 300949, 300946

**Pull Handles Residential**  
GT-250 Double D Handle  
SKU Reference: 300632, 300633, 300634

**Pull Handles Residential**  
Square D/Square Wide D/H Square S  
SKU Reference: 300647, 300648, 300649, 300650, 300651, 300644, 300645, 300646

**Pull Handles Residential**  
Delta D  
SKU Reference: 300676, 300677
GLASS PREPARATION

Pull Knobs
MK38 / MK25 / MK60 Pull Knob Sets
SKU Reference:
300885
300886
301952
300879
300880
300881
300882
300883
300884

Pull Knobs
MK70 Square Pull Knob
SKU Reference: 300693, 300694, 300692

Lever Lock and Latch Set
For Pivot Doors (Exterior Lockset and Interior Lever)
SKU Reference:
500600, 500601, 300956, 301743, 301744

Heavy Duty Sliding Door Lock
(HEAVY DUTY VERSION) For Pivot Doors (Exterior Lockset and Interior Lever)
SKU Reference: 500604, 300953, 300954

Finger Pulls
Finger Pull Raised
SKU Reference: 500606, 500607

www.metroglass.co.nz

October 2011. Ex Auckland Store. All prices exclude G.S.T.
GLASS PREPARATION

**Finger Pulls**

Finger Pull Flush
SKU Reference: 300518, 302159

134mm

60mm

---

**Pool Gate Latches**

Ozone Pool Gate Latch
SKU Reference: 300908, 300905

PGH - 7 Glass to Glass 180° latch
PGH - 11 Glass Gate in in line post

---

**Pool Gate Latches**

Ozone Pool Gate Latch
SKU Reference: 300907

PGH - 8 Glass to glass 90° latch

---

**Pool Gate Latches**

Pivot Doors / Gates - Exterior Lockset
SKU Reference:

Pool Gate Latches

Pivot Doors / Gates - Exterior Lockset
SKU Reference:

Pool Gate Latches

Pivot Doors / Gates - Exterior Lockset
SKU Reference:
**GLASS PREPARATION**

**Pool Gate Latches**
Malibu Gate Latch (Glass to Glass)
SKU Reference: 300900, 300901

Latch notes:
- Glass gap 10mm max. Holes 12mm dia
- Latch to be mounted on inside of glass and latch CL must be at least 150mm from top.

**Pool Gate Latches**
Malibu Gate Latch (Glass to Wall)
SKU Reference: 300902, 300903

Latch notes:
- Glass gap 10mm max. Holes 12mm dia
- Latch to be mounted on inside of glass and latch CL must be at least 150mm from top.

**Laguna Pool Gate**
High Strength Gate Hinge
SKU Reference: 300790, 300789, 300792, 300791

**Malibu Pool Gate**
Gate Hinge
SKU Reference: 300781, 300782, 300780, 300779

www.metroglass.co.nz
**Pool Gate Latches**

**Glass to Glass Pool Gate Pivot Arm**

SKU Reference: 301136

![Diagram of Pool Gate Latches](image1.png)

**Pool Gate Latches**

**Ozone Glass to Glass Pool Gate Pivot Arm**

SKU Reference: 301137

![Diagram of Pool Gate Latches](image2.png)

**Pool Gate Latches**

**Ozone 90° Glass Mount to Patch Pool Gate Pivot Arm**

SKU Reference: 301140

![Diagram of Pool Gate Latches](image3.png)
GLASS PREPARATION

Pool Gate Latches
Post to Post Gate
Typical Schematic Overview

Pool Gate Latches
Glass to Glass Gate 90°
Typical Schematic Overview

Pool Gate Latches
Glass to Glass Gate
Typical Schematic Overview

GLASS PREPARATION

PWA Glass to Wall Pivot

PGA-2 Glass to Glass Pivot

PWA Glass to Post Pivot

PGA-1 & PGL Glass to Glass Pivot and Lock

PGLP Glass to Post Lock

PGL-90 Glass to Glass Lock
GLASS PREPARATION

Spider Fittings
Lightweight 443
For SKU selection please see Spider section 8, 9 & 10
(Frameless Glass Canopies/Spider Commercial Facades/Spider Glass Stairs & Floors)

<table>
<thead>
<tr>
<th>STANDARD</th>
<th>3 OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>M8 Csk SCREW</td>
<td>M6 Csk SCREW WITH Ra DISC</td>
</tr>
<tr>
<td>M10 Csk SCREW</td>
<td>M10 Csk SCREW WITH Ra DISC</td>
</tr>
</tbody>
</table>

Example

443/4
443/2
443/4/2

STANDARD 3 OPTIONS

8 9 10

Spider Fittings
Lightweight 444
For SKU selection please see Spider section 8, 9 & 10
(Frameless Glass Canopies/Spider Commercial Facades/Spider Glass Stairs & Floors)

<table>
<thead>
<tr>
<th>STANDARD</th>
<th>3 OPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>M6 Csk SCREW</td>
<td>M6 Csk SCREW WITH Ra DISC</td>
</tr>
<tr>
<td>M10 Csk SCREW</td>
<td>M10 Csk SCREW WITH Ra DISC</td>
</tr>
</tbody>
</table>

Example

444/4
444/2
444/4/2

STANDARD 3 OPTIONS

8 9 10

Glass Cut Outs
GLASS PREPARATION

Spider Fittings

Heavy Duty 445

For SKU selection please see Spider section 8, 9 & 10
(Frameless Glass Canopies/Spider Commercial Facades/Spider Glass Stairs & Floors)

GLASS FIXING OPTIONS
3 OPTIONS

FIXED M10 Capscrew

FIXED BUTTON HEAD M10 Capscrew

SWIVEL 32/22-22n

SWIVEL 60/22-22n

GLASS HOLE DETAIL

GLASS HOLE DETAIL

GLASS HOLE DETAIL

GLASS HOLE DETAIL

445/4M

445/2M

445/4M/2

445/2M/1

445/4M/2Y

446/4M

446/4M/3

446/2M

For SKU selection please see Spider section 8, 9 & 10
(Frameless Glass Canopies/Spider Commercial Facades/Spider Glass Stairs & Floors)
GLASS PREPARATION

Spider Fittings
Heavy Duty 446
For SKU selection please see Spider section 8, 9 & 10
(Frameless Glass Canopies/Spider Commercial Facades/Spider Glass Stairs & Floors)

GLASS FIXING OPTIONS
STANDARD

3 OPTIONS

FIXED
M10 Csk SCREW

FIXED BUTTON HEAD
M10 Csk SCREW

SWIVEL
32/22-22n

SWIVEL 60022-22n

GLASS HOLE DETAIL

GLASS HOLE DETAIL

GLASS HOLE DETAIL

GLASS HOLE DETAIL

446/4M/2

446/2M/1

446/4M/90°

446/2M/90°

GLASS PREPARATION

Spider Fittings
Heavy Duty 445/4M/2Y
For SKU selection please see Spider section 8, 9 & 10
(Frameless Glass Canopies/Spider Commercial Facades/Spider Glass Stairs & Floors)

FASTENER TYPES
3 OPTIONS

FIXED
M10 Csk SCREW

SWIVEL 26/20-15n

SWIVEL 32/22-20n

Glass Hole Detail

Glass Hole Detail

Glass Hole Detail

445/4M/2Y
GLASS PREPARATION

Spider Fittings

Heavy Duty 445/4M/2Y
For SKU selection please see Spider section 8, 9 & 10
(Frameless Glass Canopies/Spider Commercial Facades/Spider Glass Stairs & Floors)

Typical Fixing Options

Hole Details for Toughened Glass

Hole Details for Insulated Glass

Typical Fixing Options

Hole Details for Toughened Glass

Hole Details for Insulated Glass

447/16/M10

447/16/M14

448-2-90 SPIDER

GLASS CUT OUTS