<table>
<thead>
<tr>
<th>Product name</th>
<th>Description</th>
<th>Force in Kg</th>
<th>Drawing</th>
<th>Page</th>
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<tbody>
<tr>
<td><strong>Round Covers With Square Frames</strong></td>
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<tr>
<td>1A</td>
<td>705 Diameter</td>
<td>10,000</td>
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<td>1B</td>
<td>705 Diam. Drainage</td>
<td>5,000</td>
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<td>2A 135 mm</td>
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<td>Telkom500</td>
<td>545 Diameter</td>
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<td>4A</td>
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<td><strong>Valve / Hydrant Boxes</strong></td>
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<tr>
<td>3A</td>
<td>beltobie 320 mm</td>
<td>13,500</td>
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<td>3B</td>
<td>beltobie 230 mm</td>
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<td>Type 5 hydrant</td>
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<td>5A cape town</td>
<td>580x 270 mm</td>
<td>n/a</td>
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<td>full base</td>
<td>300 x 400 mm</td>
<td>n/a</td>
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<td>blomtuin ccc</td>
<td>n/a</td>
<td>yes</td>
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<td>double lid c004</td>
<td>Set of 2 covers</td>
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<td>yes</td>
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<td><strong>Gratings</strong></td>
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<td>230 Square</td>
<td>Dish Grate</td>
<td>n/a</td>
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<td>16</td>
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<td>300 Square</td>
<td>Drainage Holes</td>
<td>n/a</td>
<td>yes</td>
<td>17</td>
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<td>450 Square LD</td>
<td>Drainage Holes</td>
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<td>18</td>
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<td>450 Square 1500KG est</td>
<td>3 Slot Gully Grid</td>
<td>1500</td>
<td>yes</td>
<td>19</td>
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<td>Inlet Kurb</td>
<td>1000 x 250 or 300mm</td>
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<td><strong>Precast Optic Chamber</strong></td>
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<td>450 x 450 x 450 mm</td>
<td>Knock Up Box</td>
<td>4000</td>
<td>yes</td>
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<td>600 x 600 x 600 mm</td>
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<td>800 x 800 x 800 mm</td>
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<td><strong>Squares &amp; Rectangles</strong></td>
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<td>150 sq or 230 Sq</td>
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<td>700</td>
<td>yes</td>
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<td>265 x 265 x 12mm</td>
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2A Heavy Duty - 100mm
700 x 700
3B Belltobie Heavy Duty 230mm
Hydrant Box 5A
Type 5
Medium Duty
Cape Town Hydrant
580x270
Medium Duty
Double lid
640x840
Medium Duty

Daylight Opening 710x330
230 Square Dish Grid
Light Duty

FRAME DIMENSIONS
300

COVER DIMENSIONS
220

Daylight Opening 170 x 170

COVER AND FRAME SIDE VIEW
VIEW A - A

NOTES:
1. Reference of completed product of a Square frame with square cover.
2. Material: Polymer Concrete
3. Manufactured: 01/01/1995
4. Grid lip pattern on cover may vary from actual product.
5. Suitable for: Walkways
6. Weight: Cover: 3kg; Frame: 3kg
7. Trench: Dimensions: Width: 700mm; Height: 400mm
8. Trench - Optional
9. Pile Tested: TBA Strength 170k

MANUFACTURING

230 Square Dish Grid
IDE: 300 x 300
Mark: 23.4 x 23.4

NOTES:
1. Reference of completed product of a Square frame with square cover.
2. Material: Polymer Concrete
3. Manufactured: 01/01/1995
4. Grid lip pattern on cover may vary from actual product.
5. Suitable for: Walkways
6. Weight: Cover: 3kg; Frame: 3kg
7. Trench: Dimensions: Width: 700mm; Height: 400mm
8. Trench - Optional
9. Pile Tested: TBA Strength 170k

MANUFACTURING

230 Square Dish Grid
IDE: 300 x 300
Mark: 23.4 x 23.4

NOTES:
1. Reference of completed product of a Square frame with square cover.
2. Material: Polymer Concrete
3. Manufactured: 01/01/1995
4. Grid lip pattern on cover may vary from actual product.
5. Suitable for: Walkways
6. Weight: Cover: 3kg; Frame: 3kg
7. Trench: Dimensions: Width: 700mm; Height: 400mm
8. Trench - Optional
9. Pile Tested: TBA Strength 170k

MANUFACTURING

230 Square Dish Grid
IDE: 300 x 300
Mark: 23.4 x 23.4

NOTES:
1. Reference of completed product of a Square frame with square cover.
2. Material: Polymer Concrete
3. Manufactured: 01/01/1995
4. Grid lip pattern on cover may vary from actual product.
5. Suitable for: Walkways
6. Weight: Cover: 3kg; Frame: 3kg
7. Trench: Dimensions: Width: 700mm; Height: 400mm
8. Trench - Optional
9. Pile Tested: TBA Strength 170k

MANUFACTURING

230 Square Dish Grid
IDE: 300 x 300
Mark: 23.4 x 23.4

NOTES:
1. Reference of completed product of a Square frame with square cover.
2. Material: Polymer Concrete
3. Manufactured: 01/01/1995
4. Grid lip pattern on cover may vary from actual product.
5. Suitable for: Walkways
6. Weight: Cover: 3kg; Frame: 3kg
7. Trench: Dimensions: Width: 700mm; Height: 400mm
8. Trench - Optional
9. Pile Tested: TBA Strength 170k

MANUFACTURING

230 Square Dish Grid
IDE: 300 x 300
Mark: 23.4 x 23.4

NOTES:
1. Reference of completed product of a Square frame with square cover.
2. Material: Polymer Concrete
3. Manufactured: 01/01/1995
4. Grid lip pattern on cover may vary from actual product.
5. Suitable for: Walkways
6. Weight: Cover: 3kg; Frame: 3kg
7. Trench: Dimensions: Width: 700mm; Height: 400mm
8. Trench - Optional
9. Pile Tested: TBA Strength 170k

MANUFACTURING

230 Square Dish Grid
IDE: 300 x 300
Mark: 23.4 x 23.4

NOTES:
1. Reference of completed product of a Square frame with square cover.
2. Material: Polymer Concrete
3. Manufactured: 01/01/1995
4. Grid lip pattern on cover may vary from actual product.
5. Suitable for: Walkways
6. Weight: Cover: 3kg; Frame: 3kg
7. Trench: Dimensions: Width: 700mm; Height: 400mm
8. Trench - Optional
9. Pile Tested: TBA Strength 170k

MANUFACTURING

230 Square Dish Grid
IDE: 300 x 300
Mark: 23.4 x 23.4

NOTES:
1. Reference of completed product of a Square frame with square cover.
2. Material: Polymer Concrete
3. Manufactured: 01/01/1995
4. Grid lip pattern on cover may vary from actual product.
5. Suitable for: Walkways
6. Weight: Cover: 3kg; Frame: 3kg
7. Trench: Dimensions: Width: 700mm; Height: 400mm
8. Trench - Optional
9. Pile Tested: TBA Strength 170k

MANUFACTURING

230 Square Dish Grid
IDE: 300 x 300
Mark: 23.4 x 23.4

NOTES:
1. Reference of completed product of a Square frame with square cover.
2. Material: Polymer Concrete
3. Manufactured: 01/01/1995
4. Grid lip pattern on cover may vary from actual product.
5. Suitable for: Walkways
6. Weight: Cover: 3kg; Frame: 3kg
7. Trench: Dimensions: Width: 700mm; Height: 400mm
8. Trench - Optional
9. Pile Tested: TBA Strength 170k

MANUFACTURING

230 Square Dish Grid
IDE: 300 x 300
Mark: 23.4 x 23.4

NOTES:
1. Reference of completed product of a Square frame with square cover.
2. Material: Polymer Concrete
3. Manufactured: 01/01/1995
4. Grid lip pattern on cover may vary from actual product.
5. Suitable for: Walkways
6. Weight: Cover: 3kg; Frame: 3kg
7. Trench: Dimensions: Width: 700mm; Height: 400mm
8. Trench - Optional
9. Pile Tested: TBA Strength 170k

MANUFACTURING

230 Square Dish Grid
IDE: 300 x 300
Mark: 23.4 x 23.4

NOTES:
1. Reference of completed product of a Square frame with square cover.
2. Material: Polymer Concrete
3. Manufactured: 01/01/1995
4. Grid lip pattern on cover may vary from actual product.
5. Suitable for: Walkways
6. Weight: Cover: 3kg; Frame: 3kg
7. Trench: Dimensions: Width: 700mm; Height: 400mm
8. Trench - Optional
9. Pile Tested: TBA Strength 170k
300 Square Dish Grid
Light Duty

Frame Dimensions

Cover Dimensions

Cover and Frame Side View

Daylight Opening 180 x 180

Notes:
1. Illustration of completed product of a Square frame with Square cover.
2. Material: Polymer Concrete
4. Anti-Slip pattern on cover may vary from actual product.
5. Suitable for: Walkways
   - Weight: Cover: 10kg, Frame: 2kg
   - Tolerances: Dimensions +/- 1mm, Weight +/- 5%
6. Locks: Optional
7. Data Tested: TBA Strength TBA
450 Square Dish Grid
Light Duty

NOTES:
1. Illustration of completed products of a square frame with square cover.
2. Material: Polymer Concrete
4. Anti-slip pattern on cover may vary from actual product.
5. Suitable for: Walkways
6. Weight: Cover: 25kg, Frame: 34kg
7. Tolerances: Dimensions +/- 10mm; Weight +/- 10%.
8. Locks - Optional
9. Traffic tested: TBA
10. Strength: 5kN

Frame Dimensions

Cover Dimensions

Cover and Frame Side View

View A - A
Inlet Kerb
1m x 250
350 Cube
Fibre Optic Box
Medium Duty

Frame Dimensions:

Cover and Frame Side View:

Notes:
1. Illustration of completed product is a square frame with square cover.
2. Material: Polyurethane Concrete
4. Material pattern on cover may vary from actual product.
5. Suitable for: NAL 80g.
6. Weight: Cover - 80g; Frame - 25kg.
7. Tolerance: Dimensions +/- 3mm; Weight +/- 0.5%.
8. Latches - Optional
9. Frame tested - TBA

Dimension: 300 x 300 x 300

Weight: 80g

Manufacturer: National Manhole Covers

model: DWG 047 - 02

Cover Dimensions:

Cover and Frame Side View:

Notes:
1. Illustration of completed product is a square frame with square cover.
2. Material: Polyurethane Concrete
4. Material pattern on cover may vary from actual product.
5. Suitable for: NAL 80g.
6. Weight: Cover - 80g; Frame - 25kg.
7. Tolerance: Dimensions +/- 3mm; Weight +/- 0.5%.
8. Latches - Optional
9. Frame tested - TBA

Dimension: 300 x 300 x 300

Weight: 80g

Manufacturer: National Manhole Covers

model: DWG 047 - 01
600 Cube
Fibre Optic Box
Medium Duty

NOTES:
- Manhole lock is optional
- Manhole shipped as pre-assembled or as loose components for the client to assemble
- Epoxy to seal the manhole supplied
- Medium Duty Manhole
- Dimensions tolerance +/- 10% including weight
- Manhole weight: 142kg

Technical Dimensions

Manhole 600 x 600

A

D

C

B

E

F

Top View

Right Side View A - A

Illustration of A - A

Left Side View

Dimensions (mm)

NOTES:
- Manhole constructed out of Polymer Concrete
- All metal components used must be 3CR12 or Grade 316/304 Stainless Steel
- Panels to be epoxied together
- Epoxy to seal manhole edges supplied
- Weight: 142kg

National Manhole Covers
021 987 6555

Drawing ID 145521

DWG - 001 - 01
800 Cube Fibre Optic Box
Medium Duty

NOTES:
- Manhole lock is optional
- Manhole shipped as pre-assembled or as loose components for the client to assemble
- Epoxy to seal the manhole supplied
- Medium Duty Manhole
- Dimensions tolerance +/- 10%
- Manhole weight: 2550 kg
900 Cube
Fibre Optic Box
Medium Duty

NOTES:
- Manhole lock is optional
- Manhole shipped as pre-assembled or as loose components for the client to assemble
- Epoxy to seal the manhole supplied
- Medium Duty Manhole
- Dimensions tolerance +/- 10% including weight
- Manhole weight: 310kg
1 Meter Cube Fibre Optic Box Medium Duty

NOTES:
- Manhole lock is optional
- Manhole shipped as per assembled or as loose components for the client to assemble
- Epoxy to seal the manhole supplied
- Medium Duty Manhole
- Dimensions tolerance +/- 10% including weight
- Manhole weight: 340kg

Technical Dimensions
National Manhole Covers
Tel: 021 987 6555
265 Square Light Duty

FRAME DIMENSIONS

COVER DIMENSIONS

NOTE:
1. Dimension of completed product at a Square frame with Square cover
2. Material - Polymer Concrete
3. Manufactured: 300 x 260
4. Material pattern on cover may vary from actual product
5. Suitable for: Vehicles and Heavy Equipment

Daylight Opening

55

National Manhole Covers
821 987 6555

COVER AND FRAME SIDE VIEW

VIEW A - A
450 x 6000
Medium Duty

Cover and Frame Side View

Dimensions:
- 120 x 120 mm
- 50 x 50 mm

Cover Dimensions:
- 600 x 600 mm
- 277 x 277 mm
- 6555

Notes:
1. Material of completed product is a rectangular frame with rectangular cover.
2. Material: Polymer Concrete
3. Maximum Weight: 882 x 1205
4. Slip pattern on cover may vary from actual product.
5. Suitable for: Driveways
6. Weight: 27 kg
7. Tolerances: Dimensions ± 2 mm; weight ± 1 kg
8. Rails: Optional

Manufactured by: National Manhole Covers
821 907 6555

Date: [Insert Date]

Signature: [Insert Signature]

Checked: [Insert Checked]

National Manhole Covers
821 907 6555
900 Square Medium Duty

Daylight Opening 875 x 875
Steel Lock
Stainless 316
Or 3CR12

NOTES:
1. Illustration of complete product of a manhole cover blister type lock
2. Material: Stainless Steel
3. Material/Gage: 304L, 1.25
4. Suitable for: Manhole Covers
5. Weight: 3.5 kg
6. Tolerance: Variance +/- 10mm; Weight +/- 10%
7. Date Tested: TBD; Strength TBD

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<th>Part No.</th>
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National Manhole Covers
821-967 6555

INSTD

MANUFACTURING

Date

Signature

Checked

50
Plastic Insert To Close Holes On Manhole Covers

NOTES:
1. Illustration of completed product of a manhole cover lifting key plug.
3. Manufacturer: BMA/TVS.
4. Cannot be a manhole cover.
5. Dimensions: 20mm x 45mm x 50mm.
6. Weight: 8.0kg.
7. Device tested: TBA Strength TBA.