STANDARD 675 SQUARE
RECESSED DOUBLE SEAL
MANHOLE COVER AND FRAME

DRAINAGE SERVICES DEPARTMENT

REFERENCE
DRAWING No.
SCALE
N.T.S.

DS 1085A
(SHEET 1 OF 5)
TYPICAL SECTION OF COVER AND FRAME

FRAME
SCALE 1:10

STANDARD 675 SQUARE
RECESSED DOUBLE SEAL
MANHOLE COVER AND FRAME

DRAINAGE SERVICES DEPARTMENT

REFERENCE
DRAWING NO.

SCALE
1:5 OR AS SHOWN

DS 1085A
(SHEET 2 OF 5)
DETAIL '1'

DETAIL '2'

<table>
<thead>
<tr>
<th>DIMENSION LETTER</th>
<th>D</th>
<th>H</th>
<th>h1</th>
<th>h2</th>
<th>T</th>
<th>t</th>
<th>u</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRADE</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LIGHT</td>
<td>4</td>
<td>75</td>
<td>50</td>
<td>0</td>
<td>4</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>MEDIUM</td>
<td>5</td>
<td>125</td>
<td>75</td>
<td>5</td>
<td>8</td>
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</tbody>
</table>

For grade of manhole cover, see note 8.

STANDARD 675 SQUARE
RECESSED DOUBLE SEAL
MANHOLE COVER AND FRAME

DRAINAGE SERVICES DEPARTMENT

REFERENCE

SCALE 1 : 2

DRAWING No. DS 1085A
(SHEET 3 OF 5)
SECTION A-A
SCALE 1:2

SECTION B-B
SCALE 1:2

SECTION C-C
SCALE 1:2

SECTION D-D
SCALE 1:2

SECTION E-E
SCALE 1:2

DETAIL '3'

DETAIL '4'

KEY HOLE
(SEE DETAIL)
TYPE (STORM OR FOUL) AND GRADE OF MANHOLE COVER
(SEE NOTE B)

FOUL

STANDARD 675 SQUARE
RECESSED DOUBLE SEAL
MANHOLE COVER AND FRAME

DRAINAGE SERVICES DEPARTMENT

A  DETAIL '4' REVISED  ORIGINAL SIGNED 29.10.2010
NEW ISSUE  ORIGINAL SIGNED  4.10.2007
REV.  DESCRIPTION  SIGNATURE  DATE

REFERENCE  DRAWING NO.

SCALE 1:5 OR AS SHOWN

DS 1085A
(SHEET 4 OF 5)
NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES.


3. COVER AND FRAME SHALL BE HOT-DIP GALVANIZED TO BS EN ISO1461. ALL WELDS SHALL BE 4mm CONTINUOUS FILLET WELD COMPLYING WITH BS 4872.

4. OTHER MATERIALS OF BETTER CORROSION RESISTANCE OR DURABILITY, SUCH AS STAINLESS STEEL, WITH EQUIVALENT STRENGTH MAY BE USED IF APPROVED BY THE ENGINEER.

5. THE EXTERNAL EDGES OF THE COVER AND INTERNAL FACES OF THE FRAME SHALL BE COATED WITH A NON-SETTING, THICK LUBRICANT, SUCH AS PETROLEUM GEL, IN ORDER TO PREVENT JAMMING THE COVER AND FRAME DUE TO SAND GRAINS ENTERING THE GAP AFTER FINAL FIXING.

6. THE RECESSED COVER IS DESIGNED TO ACCOMMODATE PAVING BLOCK UP TO A MAXIMUM THICKNESS OF 80mm. FOR AREAS USED BY PEDAL CYCLISTS (IE. LIGHT DUTY), THE INFILLING SHALL BE 10mm WEARING COURSE BITUMINOUS MATERIALS, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

7. THE PAVING BLOCK WITHIN THE RECESSED COVER SHALL BE BEDDED ON CEMENT MORTAR. JOINTING SAND SHALL BE APPLIED TO THE WHOLE COVER WITH COMPACTION.

8. ABBREVIATION OF TYPE AND GRADE OF MANHOLE COVER SHALL BE ENGRAVED ON THE COVER AS FOLLOWS:

<table>
<thead>
<tr>
<th>ABBREVIATION</th>
<th>INDICATION</th>
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<tbody>
<tr>
<td>Foul AttributedString</td>
<td>Foul Sewer Manhole</td>
</tr>
<tr>
<td>Storm AttributedString</td>
<td>Stormwater Drain Manhole</td>
</tr>
<tr>
<td>Grade AttributedString</td>
<td>Light - For area used by pedestrians and pedal cyclists only.</td>
</tr>
<tr>
<td>Medium AttributedString</td>
<td>Medium - For footways, pedestrian areas, car parks and areas where there are slow-moving service and delivery vehicles, refuse collection vehicles, emergency vehicles etc.</td>
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</tbody>
</table>

9. MANHOLE FRAME SHALL BE BEDDED UPON BEDDING MATERIAL WHICH IS NON-SHRINK AND HAS COMPRESSIVE STRENGTH EXCEEDING 30 N/mm².