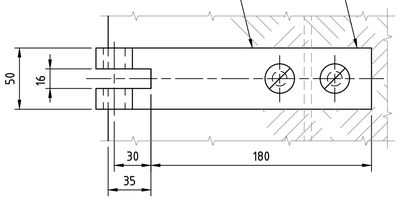
A1

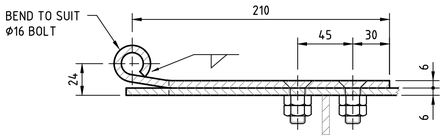
THIS DRAWING MAY ONLY BE USED IN THE COURSE OF AND FOR THE PURPOSE OF CREATING SYDNEY WATER ASSETS. USE THIS DRAWING WITH CARE. THE USER IS RESPONSIBLE FOR THE CORRECT APPLICATION OF THIS DRAWING THE USE OF DTC DRAWINGS IS SUBJECT TO TERMS AND CONDITIONS AS PUBLISHED BY SYDNEY WATER.

TREADS UNDER COVER HINGES TO BE GROUND FLUSH PROVIDE INSULATION MATERIAL "DENSO" PRIMER D & DENSOPOL 60 TAPE OR APPROVED EQUIVALENT BETWEEN ALUM AND STEEL

50 x 6 SS GRADE 316 FLAT FASTENED TO COVER WITH 2 x M12 x 40 LONG C'SUNK HEAD SS GRADE 316 BOLTS BOLTS TO BE INSULATED USING C'SUNK INSULATING BUSHES & RETAINING RINGS OR WASHERS



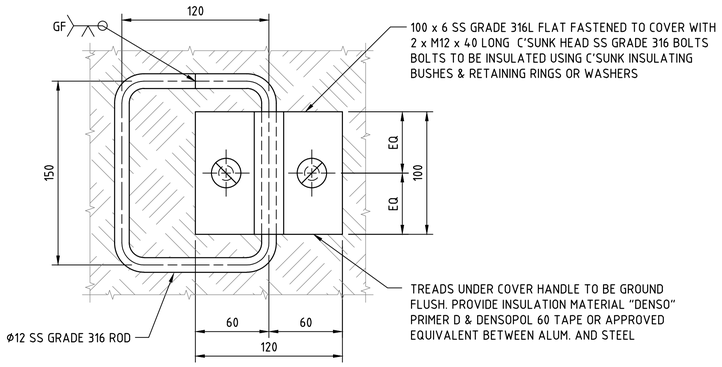

PLAN




SECTION

DETAIL A / A (3300 / 3301)
SCALE 1:2.5

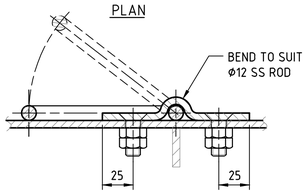
COVER SEAL OMITTED FOR CLARITY




100 x 6 SS GRADE 316L FLAT FASTENED TO COVER WITH 2 x M12 x 40 LONG C'SUNK HEAD SS GRADE 316 BOLTS BOLTS TO BE INSULATED USING C'SUNK INSULATING BUSHES & RETAINING RINGS OR WASHERS

TREADS UNDER COVER HANDLE TO BE GROUND FLUSH. PROVIDE INSULATION MATERIAL "DENSO" PRIMER D & DENSOPOL 60 TAPE OR APPROVED EQUIVALENT BETWEEN ALUM. AND STEEL

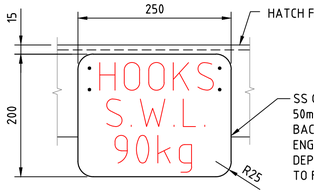
PLAN




SECTION

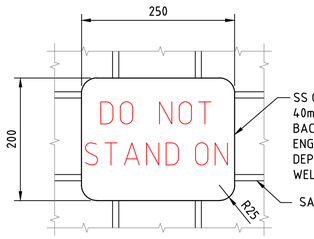
DETAIL B / B (3300 / 3301)
SCALE 1:2.5

COVER SEAL OMITTED FOR CLARITY




SS GRADE 316 PLATE 3mm THICK WITH 50mm HIGH RED WRITING ON WHITE BACKGROUND. LETTERING TO BE ENGRAVED TO A MINIMUM OF 1mm DEPTH INTO PLATE. PLATE TO BE FIXED TO FRAME WITH 4 C'SUNK SS SCREWS

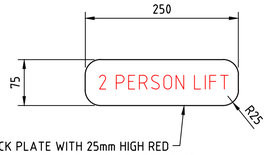
DETAIL D / D (3300 / 3301)
SCALE 1:5




SS GRADE 316 PLATE 3mm THICK WITH 40mm HIGH RED WRITING ON WHITE BACKGROUND. LETTERING TO BE ENGRAVED TO A MINIMUM OF 1mm DEPTH INTO PLATE. PLATE TO BE WELDED TO SAFETY GRILLE

SAFETY GRILLE

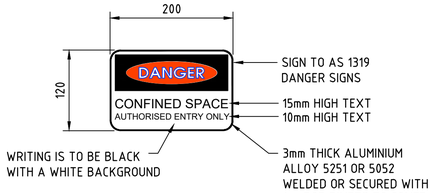
DETAIL E / E (3300 / 3301)
SCALE 1:5




3mm THICK PLATE WITH 25mm HIGH RED WRITING ON WHITE BACKGROUND LETTERING TO BE ENGRAVED TO A MINIMUM OF 1mm DEPTH INTO PLATE FOR SAFETY GRILLE. PLATE TO BE SS GRADE 316 & WELDED TO GRILLE.
PLATE TO BE ALUMINIUM ALLOY 5251 OR 5052 & WELDED TO COVER

DETAIL F / 3301
SCALE 1:5

NOTE: '2 PERSON LIFT' SIGN TO BE INSTALLED ONLY WHERE THE MASS OF THE COVER IS GREATER THAN 32kg




SIGN TO AS 1319 DANGER SIGNS

15mm HIGH TEXT
10mm HIGH TEXT

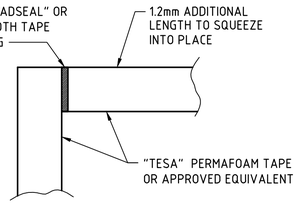
3mm THICK ALUMINIUM ALLOY 5251 OR 5052 WELDED OR SECURED WITH 4 x POP RIVETS TO COVER

WRITING IS TO BE BLACK WITH A WHITE BACKGROUND

DETAIL H / H (3300 / 3301)
SCALE 1:5

BUTT JOINT DETAIL - APPLY "ADSEAL" OR APPROVED EQUIVALENT TO BOTH TAPE SURFACES PRIOR TO ABUTTING

1.2mm ADDITIONAL LENGTH TO SQUEEZE INTO PLACE

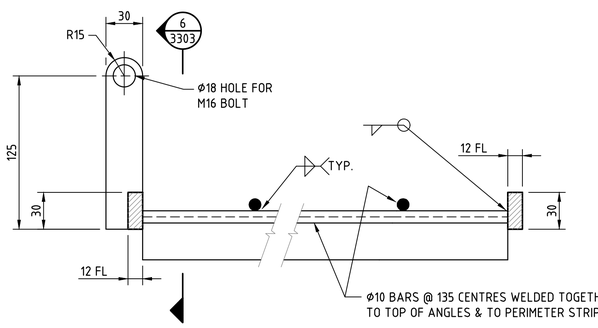


"TESA" PERMAFOAM TAPE OR APPROVED EQUIVALENT

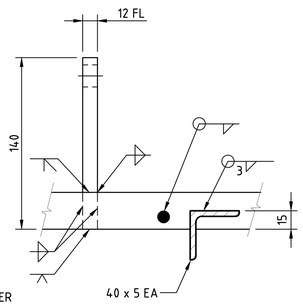
PLAN

NOTE:
WIPE HATCH COVER WITH A CLEAN, LINT-FREE, DRY CLOTH TO ENSURE ABSENCE OF GREASE, DIRT OR MOISTURE PRIOR TO APPLICATION OF TAPE

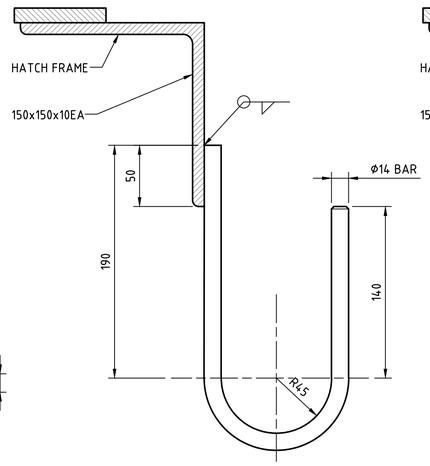
TYPICAL SEALING TAPE CORNER DETAIL
SCALE 1:2.5



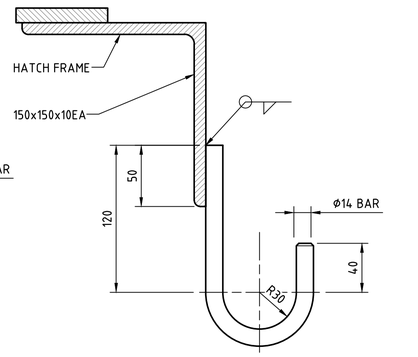

SECTION 4 / 4 (3300 / 3301)
SCALE 1:2.5




SECTION 6 / 3303
SCALE 1:2.5




CHAIN/CABLE HOOK




INSTRUMENT/LEVEL SENSOR HOOK

DETAIL C / C (3300 / 3301)
SCALE 1:2.5

MATERIAL: SS GRADE 316L

NOTES.

1. TREAD PLATE COVERS SHALL BE ALUMINIUM ALLOY 5251 OR 5052 & STIFFENERS SHALL BE ALUMINIUM ALLOY 6060-T5 TO AS/NZS 1734. THE WELDING OF THE HATCH COVER SHALL BE IN ACCORDANCE WITH AS/NZS 1665.
2. FLATS & ANGLES OF THE SAFETY GRILLES & COMPONENTS OF THE ACCESS HATCH FRAME SHALL BE STAINLESS STEEL GRADE 316L TO ASTM A276 & ASTM A240M. WELDING OF SAFETY GRILLE ASSEMBLY (INCLUDING THE FRAME) SHALL BE IN ACCORDANCE WITH AS/NZS 1554-6 & PASSIVATION IN ACCORDANCE WITH ASTM A380.
3. ø10 BARS FOR SAFETY GRILLES SHALL BE STAINLESS STEEL GRADE 316L WITH A MINIMUM 0.2% PROOF STRESS OF 300 MPa & A MINIMUM TENSILE STRENGTH OF 500 MPa.
4. ALL WELDS SHALL BE 6mm CONTINUOUS FILLET WELD U.N.O.
5. ALL BUTT WELDS SHALL BE COMPLETELY PENETRATED BUTT WELDS.
6. SAFETY GRILLES & HATCHES OF DIMENSIONS OTHER THAN DETAILED ON THESE DRAWINGS SHALL BE DESIGNED IN ACCORDANCE WITH THE SPS CODE WSA-04 (SYDNEY WATER EDITION).
7. NOT FOR PUMPS AND IMH HATCHES. WHERE HATCH IS LOCATED ABOVE A PUMP THE DESIGNER MUST PROVIDE ADDITIONAL SITE SPECIFIC DETAIL WITH REGARD TO THE NUMBER OF AND LOCATION OF HOOKS, SIGNAGE AND CUT OUT IN GRILLE FOR PUMP CABLES. PROVIDE AN ADDITIONAL 125x125 OPENING WITH 32x12 FLAT ALL ROUND FOR PUMP ACCESS SAFETY GRILLE WHEN THERE ARE MORE THAN 2 PUMP CABLES.
8. ALL EXTERNAL HATCH COVER HINGES SHALL HAVE ONE EXTERNAL NUT TACK WELDED TO HINGE BOLT AND ALL INTERNAL COVER HINGES SHALL HAVE LOCK NUTS. NYLOCS (NYLON INSERTED NUTS) ARE NOT PERMITTED.

THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWINGS DTC-3300, 3301 & 3302

0 25 50 75 100 150 200 250
SCALE 1:2.5 AT ORIGINAL SIZE

0 50 100 150 200 300 400 500mm
SCALE 1:5 AT ORIGINAL SIZE

Sydney WATER

APPROVED

NORBERT SCHAEPER
MANAGER - ENGINEERING

ENGINEERING & TECHNICAL SUPPORT

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| LETTER | DETAILS OF ISSUE / AMENDMENT | APP'D | DATE |
|---|---|---|---|
| D | GENERAL REVISION | N.S. | 25.06.21 |
| C | GENERAL REVISION | KW | 10.06.16 |
| B | GENERAL REVISION | PJG | 11.09.14 |
| A | ORIGINAL ISSUE | PJG | 01.03.13 |

DEEMED TO COMPLY DRAWINGS

# ACCESS HATCHES & SAFETY GRILLES
# ARRANGEMENT & DETAILS - SHEET 4 OF 4

DTC
3303

| ISSUE | DATE |
|---|---|
| D | 25.06.21 |