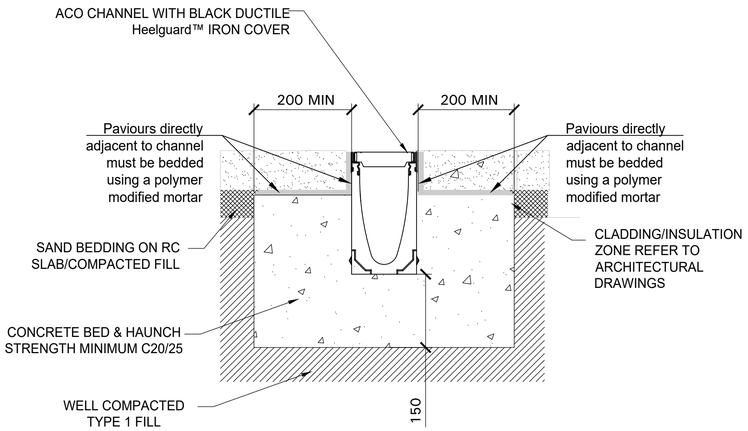
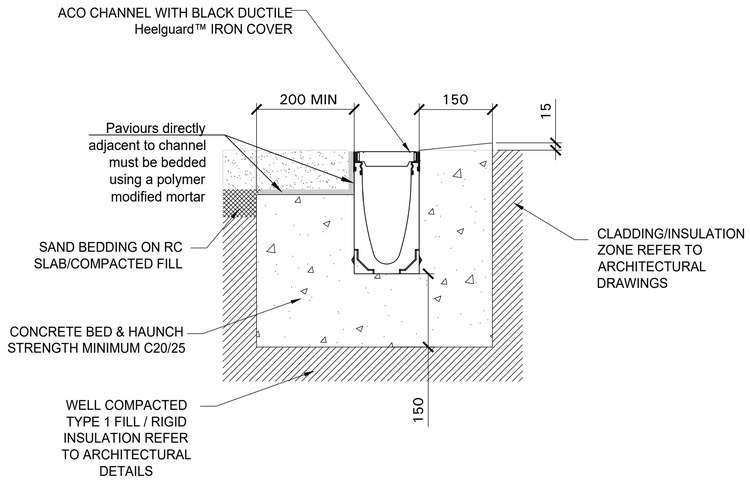


ACO TYPE 1 SUMP FOR MD150
CHANNEL ADJACENT TO NORTH
SIDE OF NEW BUILDING



ACO TYPE 3 SUMP FOR MD100
CHANNEL IN PAVED AREAS

ACO CHANNEL NOTES:

1.0 LOAD CLASS
DETAILS ARE FOR UP TO LOAD CLASS C250

2.0 CUTTING AND JOINTING
MITRE JOINTS ARE FORMED BY CUTTING THE CHANNELS TO THE REQUIRED ANGLE AND BUTTING THEM TOGETHER WITH APPROPRIATE SEALANT (E.G. SIKAFLEX 11FC OR SIMILAR) OR ACO REPAIR KIT. WHERE POSSIBLE 90° JOINTS AND T'S SHOULD BE FORMED SO THAT GRATINGS DO NOT HAVE TO BE CUT. ANGLES CAN BE FORMED BY CONNECTING THEM USING PROPRIETARY PVCU PIPEWORK ATTACHED TO ACO INLET/OUTLET ENDCAPS. FOR FURTHER DETAILS PLEASE CONTACT ACO DESIGN SERVICES TEAM.
NOTE: FOR LOAD CLASSES HIGHER THAN C 250, MITRED JOINTS ARE NOT RECOMMENDED IN VEHICULAR AREAS. WHERE REQUESTED ACO CAN CUSTOM MANUFACTURE ANGLED JUNCTIONS TO ORDER.

3.0 ISOLATION JOINTS
THE CHANNEL MUST BE ISOLATED FROM THE SURROUNDING ENVIRONMENT. AN ISOLATION JOINT MUST BE POSITIONED UP TO 1500MM FROM THE CHANNEL WALL.

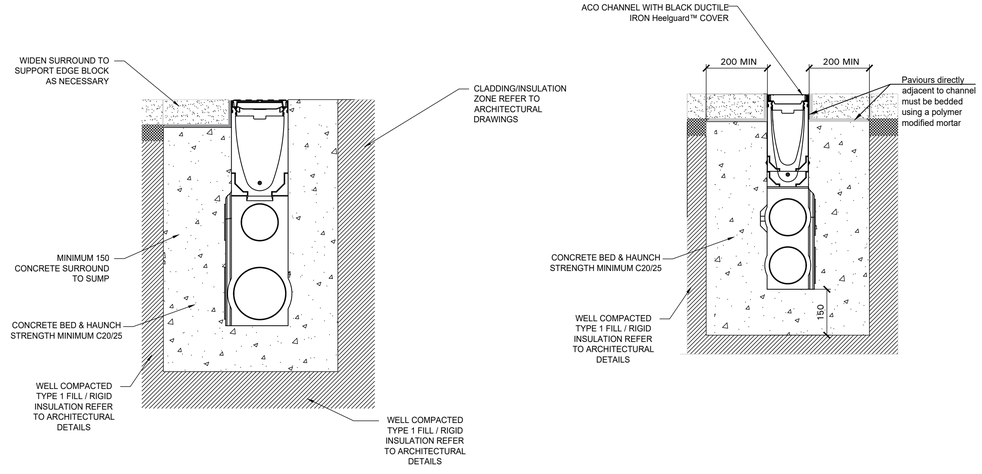
4.0 TEMPORARY INSTALLATION
A CHANNEL INSTALLATION IS NOT COMPLETE UNTIL THE FINAL SURFACING IS LAID. IN ANY TEMPORARY CONDITION, I.E. WITH THE CHANNEL WALLS PROJECTING ABOVE ADJACENT GROUND, SITE TRAFFIC SHOULD NOT CROSS CHANNELS. LOOSE BOARDS, STONE FILL OR COVER PLATES WILL NOT PROTECT THE CHANNEL WALLS OR GRATING. A TEMPORARY CHANNEL CROSSING SHOULD BE FORMED BY RAISING THE GROUND LEVEL LOCALLY, TO 3 - 6MM ABOVE TOP OF EDGE RAIL, EITHER SIDE OF A CHANNEL FOR A DISTANCE OF 750 TO 1000MM, TO FORM RAMPS. NOTE THAT THE CHANNEL LOAD CLASS SHOULD BE ADEQUATE TO CARRY THE SITE TRAFFIC.

5.0 BLOCK PAVEMENTS
THE CHANNEL MUST BE SUPPORTED LATERALLY. BLOCKS LAID DIRECTLY AGAINST A CHANNEL MUST BE LAID AS A SOLDIER COURSE AND RESTRAINED FROM MOVEMENT BY BEDDING SECURELY ON THE CONCRETE HAUNCH E.G. BY USING A POLYMER MODIFIED MORTAR FOR BED AND PERPENDICULAR JOINTS (E.G. RONAFIX MORTAR MIX C OR SIMILAR). BLOCKS OR SLABS BEDDED ON SAND REMOTE FROM THE CHANNEL SHOULD BE SET AT A HIGHER LEVEL TO COMPENSATE FOR POSSIBLE SETTLEMENT OF THE PAVING IN SERVICE.

6.0 GRATE LOCKING SYSTEM
GRATINGS SHOULD BE SECURELY FIXED TO THE CHANNEL, WHERE REQUIRED, USING AN APPROPRIATE GRATE LOCK SYSTEM (WHERE AVAILABLE).

7.0 CHANNEL PROTECTION
AVOID CONTACT BETWEEN COMPACTION EQUIPMENT AND TOP OF ACO CHANNEL EDGE RAIL. THE INSTALLER MUST ENSURE THAT THE FINISHED SURFACE LEVEL LIES ABOVE THE TOP OF THE EDGE RAIL (BY AT LEAST 3-6MM), COVERING OR PROTECTING THE GRATING, BEFORE CONCRETING THE HAUNCH OR LAYING BLOCKS, REMOVES THE TIME AND COST ASSOCIATED WITH CLEANING THE CHANNEL AND GRATING OF CEMENT MATERIAL AND EMBEDDED STONES. (PLEASE NOTE THAT ACO CHANNELS MUST BE INSTALLED WITH THE GRATING IN PLACE TO PREVENT DEFORMATION OF THE CHANNEL).

8.0 SEALING JOINTS
JOINTS/FITTINGS ARE TO BE SEALED WITH SIKAFLEX 11FC OR SIMILAR. GUIDANCE ON THE NECESSARY SURFACE PREPARATION AND/OR PRIMING SHOULD BE SOUGHT FROM THE SEALANT MANUFACTURER.



NOTE ALL SUMP UNITS TO HAVE FOUL WATER TRAPS FITTED AT CONNECTIONS TO THE DRAINAGE SYSTEM

NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
2. FOR SETTING OUT REFER TO ARCHITECT'S DRAWINGS.
3. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
4. DO NOT SCALE FROM THE DRAWING OR THE COMPUTER DIGITAL DATA. ONLY FIGURED DIMENSIONS TO BE USED.

Rev	Date	Description	By
C01	19/04/21	PRELIMINARY ISSUE	JC
P01	30/03/21	PRELIMINARY ISSUE	JC

Project Title
LSHTM
TP2 TAVISTOCK PLACE

Drawing Title
ACO DRAINAGE CHANNELS AND SUMP DETAILS

Scale @ A1	Date	Drawn	Checked
1:10	30/03/21	JC	

Drawing Status: **A - AUTHORISED & ACCEPTED** | Revision: **C01**

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