



OUR TOWN HALL

P31 NBS SPECIFICATION

HOLES, CHASES, COVERS AND SUPPORTS FOR SERVICES

Document reference: OTH-PUR-TH-ZZ-SPE-A-5937

Date: 24/07/2020

Status: For Tender

Issue:-



CLAUSE SUFFIX LETTERS

This Purcell Specification is based upon the National Building Specification (NBS). The Contractor's attention is drawn to the suffix letters **A**, **B** and ***** that occur after some of the clause numbers in the work sections.

These suffix letters are used as follows:

- ☐ ***** is used for a new clause, not found in the NBS
- ☐ **A** is used for an NBS clause which has been altered in the Purcell Standard Specification.
- ☐ **B** is used for a new clause in this particular Job Specification or against an existing clause from the Purcell Standard Specification amended for this project.

No liability is accepted for the incorrect application of this convention in this Specification.

Rev	By	Description	Date	Authorised
-	DW	FOR TENDER	24/07/2020	NM

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Holes, chases, covers and supports for services

P31 Holes, chases, covers and supports for services

To be read with Preliminaries/ General conditions.

PRODUCTS**300A FLOOR BOXES TO RES-01 TYPE ROOMS**

- Manufacturer:
Cableduct UK
30 Selhurst Road,
South Norwood,
London SE25 5QF
- Product reference: 700 series -SBOX-738-BR.
- Sizes: Frame size 250X320mm and Base box size 330x260mm.
Locations: Refer to OTH-PUR-TH-ZZ-SCH-A-5804 Fit Out and Decorations Schedule for location. Refer to OTH-PUR-TH-ZZ-SKE-A-0501, 0506 and 0507 and OTH-PUR-TH-ZZ-SKE-A-0500 for setting out.
- Accessories:
As per Architects drawings: OTH-PUR-TH-ZZ-DWG-A-8103
Lid recess - to take floor build-up
Base with 20 & 25mm conduit knockouts in base & sides.
In RES-01 spaces, including staterooms and great hall bespoke boxes, AV support and grilles are required refer to 300C, 370 and 300A

300B FLOOR BOXES TO ALL OTHER ROOMS

- Manufacturer:
Cableduct UK
30 Selhurst Road,
South Norwood,
London SE25 5QF
- Product reference: 700 series -SBOX-738-BR-AB (Antique brass finish)
700 series -SBOX-738-STST (Stainless steel finish) .
- Sizes: Frame size 250X320mm and Base box size 330x260mm .
Locations: Stainless steel finish to all boxes except those in UPR-01 or RES-01 Rooms which is Antique brass finish.
Refer to schedule OTH-PUR-TH-ZZ-SCH-A-9593 for locations and OTH-PUR-TH-ZZ-SKE-A-0501, 0506 and 0507 and OTH-PUR-TH-ZZ-SKE-A-0500 for setting out.
- Accessories:
As per Architects drawings: OTH-PUR-TH-ZZ-DWG-A-8103
Lid recess – 30mm to take ply insert and floor finishes – Allow for 12mm ply + floor build-up.
Base with 20 & 25mm conduit knockouts in base & sides

300C FLOOR BOXES To First Floor VHS Rooms

- Manufacturer: Cableduct UK
30 Selhurst Road,
South Norwood,
London SE25 5QF
- Product reference: Bespoke.
Finish: Antique brass frame to be minimal.
- Sizes: Refer to drawings and schedule on OTH-PUR-TH-ZZ-DWG-A-0620 & 0621.
Locations: Refer to drawings OTH-PUR-TH-ZZ-DWG-A-0620 & 0621 for floor box types, schedule and locations. Floor access, services boxes, heating grille covers to be sized to suit the existing particular room floor board and parquetry details, the dimensions on the drawings and schedule are approximate dimensions and the exact sizes are to be checked and confirmed on site prior to manufacturer.
- Accessories:
As per Architects drawings: OTH-PUR-TH-ZZ-DWG-A-8320 & 8321
Lid recess - Bespoke depth lids required to take floor build-up, note the floor finish does vary from room to room the existing floor finish is to be carefully removed in the location of the floor boxes and the removed boards are to be used in the floor box lids, recessed lid depths from 30-55mm will be required.
Base with 20 & 25mm conduit knockouts in base & sides refer to details drawings boxes, the AV pole sockets do not require a base and have a circular removable lid to the centre to reveal the floor socket to have antique brass finish with central finger catch for removal.

370 ACCESS COVERS/ GRATINGS FOR REMOVABLE TIMBER PANELS TYPE FR-2, FR-2a & FT-4

- Manufacturer: To be constructed on site using existing floor boards that have been carefully removed from the existing floor.
 - Product reference: N/A.
- Covers/ Gratings: Removable timber floorboard panel with no frame to be visible.
 - Sizes: Refer to drawings and schedule on OTH-PUR-TH-ZZ-DWG-A-0620 & 0621 and details on drawing OTH-PUR-TH-ZZ-DWG-A-8321.
 - Loading grade: Pedestrian.
- Frame/ Support/ Fixing: Existing floor boards to be glued and screwed to a 24mm thick marine ply backing, screw fixings to be 45mm stainless steel wood screws fixed from the underside to conceal the fixings with countersunk heads through pilot holes. The completed removable timber board panels are to be fixed to the prepared floor sub-structure using 75mm recessed brass cups and screws with slotted head.
- Accessories: Recessed brass cup screws with slotted heads.

370A ACCESS COVERS/ GRATINGS FOR TRENCH HEATERS AS TYPE FG-3, 3A & 3B

- Manufacturer: Cableduct UK
30 Selhurst Road,
South Norwood,
London SE25 5QF.
 - Product reference: Bespoke.
- Covers/ Gratings: Antique brass grilles refer to drawings and schedule on OTH-PUR-TH-ZZ-DWG-A-0620 & 0621.
 - Sizes: Refer to drawings and schedule on OTH-PUR-TH-ZZ-DWG-A-0620 & 0621 and details on drawing OTH-PUR-TH-ZZ-DWG-A-8320 & 8321.
 - Loading grade: To match adjacent floor.
- Frame/ Support/ Fixing: Softwood trimmers to existing cut floor joists with timber packers below to support onto existing concrete jack floor structure. Grille to be supported within metal frame to have minimal antique brass framing to perimeter of floor grille, grille to be flush with the adjacent floor finish..
- Accessories: Recessed fixings with brass finish, grille type FG-3b to have a black coated metal plate to conceal floor services as shown on the drawings..

EXECUTION**610 COORDINATION**

- Locations and dimensions of holes and chases for services: Submit details As per Architects and M&E Engineers drawings.

620 HOLES, RECESSES AND CHASES IN IN SITU CONCRETE

- Cast in: Holes larger than 10 mm diameter, recesses and chases.
- Cutting and drilling:
 - Permitted for holes not larger than 10 mm diameter.
 - Not permitted for holes larger than 10 mm diameter except as indicated on drawings.

630 HOLES, RECESSES AND CHASES IN PRECAST CONCRETE

- Cutting and drilling: Not permitted except as indicated on drawings.

640 HOLES IN STRUCTURAL STEELWORK

- Cutting and drilling: Not permitted except as indicated on drawings.

650 HOLES, RECESSES AND CHASES IN MASONRY

- Locations: To maintain integrity of strength, stability and sound resistance of construction.
- Sizes: Minimum needed to accommodate services.
 - Holes (maximum): 300 mm².
- Walls of hollow or cellular blocks: Do not chase.
- Walls of other materials:
 - Vertical chases: No deeper than one third of single leaf thickness, excluding finishes.
 - Horizontal or raking chases: No longer than 1 m. No deeper than one sixth of the single leaf thickness, excluding finishes.
- Chases and recesses: Do not set back to back. Offset by a clear distance at least equal to the wall thickness.
- Cutting: Do not cut until mortar is fully set. Cut carefully and neatly. Avoid spalling, cracking and other damage to surrounding structure.

660 PREFORMED HOLES IN MASONRY

- Width of holes without bridging over (maximum): Refer to Structural Engineer's drawings for details.
 - Holes requiring bridging: Submit proposals.

670 NOTCHES AND HOLES IN STRUCTURAL TIMBER

- General: Avoid if possible.
- Sizes: Minimum needed to accommodate services.
- Position: Do not locate near knots or other defects.
- Notches and holes in same joist: Minimum 100 mm apart horizontally.
- Notches in joists:
 - Position: Locate at top. Form by sawing down to a drilled hole.
 - Depth (maximum): 0.15 x joist depth.
 - Distance from supports: Between 0.1 and 0.2 x span.
- Holes in joists:
 - Position: Locate on neutral axis.
 - Diameter (maximum): 0.25 x joist depth.
 - Centres (minimum): 3 x diameter of largest hole.
 - Distance from supports: Between 0.25 and 0.4 of span.
- Notches in roof rafters, struts and truss members: Not permitted.
- Holes in struts and columns: Locate on neutral axis.
 - Diameter (maximum): 0.25 x minimum width of member.
 - Centres (minimum): 3 x diameter of largest hole.
 - Distance from ends: Between 0.25 and 0.4 of span.

690 INSTALLING PIPE SLEEVES

- Sleeves: Fit to pipes passing through building fabric.
- Material: Match pipeline.
- Size: One or two sizes larger than pipe to allow clearance.
- Finish: Install sleeves flush with building finish. In areas where floors are washed down, install protruding 100 mm above floor finish.
- Masking plates: Fit at visible penetrations, including through false ceilings of occupied rooms.