

5 Electrical Services

Penetrations in sound rated ceilings or walls or floors should maintain the acoustic performance of the ceiling/wall/floor. Where required provide acoustic boxes or other treatment.

Where penetrations are made in sound rated walls (including floor mounted air-conditioning unit cupboards) for either power outlets (PO's) or light switches, these should be backed using the HPM 430 Fire/Acoustic wall box. The boxes may be used in a back to back arrangement.

Individual electrical cables can be sealed with low modulus, non-slumping PSA composite acoustic sealant. Bunches of cables shall be drawn through a 5mm thick, 600mm long PVC conduit packed with polyester fibre, fibreglass or rockwool insulation. Seal around the conduit by filling with a non-shrinking grout.

Light fittings penetrating sound rated ceilings over wet areas shall be treated with acoustic boxes themselves as required to maintain the acoustic performance of the ceiling, or fittings having a solid face plate (with no gaps to the ceiling void).

Refer to Appendix 1 for detail of walls requiring acoustic boxes for GPO's and acoustically sealed ceilings.

Ducted skirtings - Rw 45 or higher walls – Where a ducted skirting or a sill/subsill is continuous through a Rw 45 wall – pack the skirting/sill with 32kg/m³ mineral wool insulation for 300mm on each side of the wall.