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For the attention off Micheal Holding

Reference: Didsbury Library - Radiator installation

Further to your request for additional information on the fixing to the existing walls at the above. All pipework will be surface mounted with no channelling of any kind to the existing strata. Radiators will be mounted in the same location at existing radiators so were possible existing whole will be used for the fixing positions.

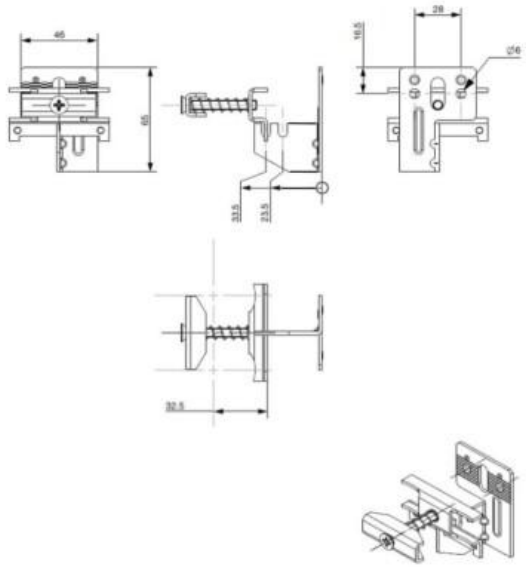
Methodology: Fixing Cast Iron Radiators to Pre-Existing Walls in Listed Buildings

1. **Pre-Installation Assessment**
    - Review Listed Building Consent requirements – confirm with Conservation Officer whether fixings to the wall fabric are permitted.
    - Identify wall type (solid stone, brick, lathe & plaster, timber panelling, etc.).
    - Carry out structural integrity checks to confirm the wall can take the point loads of a cast iron radiator (which can be very heavy when filled with water).
    - Prepare a method statement and risk assessment for heritage compliance.
2. **Selection of Fixing Method**
    - **Avoid invasive fixings** wherever possible.
    - Use existing mortar joints or sacrificial backing boards to minimise damage to historic fabric.
    - For very heavy radiators, consider using **floor-standing radiator feet** (replica heritage style if required) to transfer the majority of the load to the floor, with wall fixings acting only as restraint.
    - Where wall brackets must be used, specify **removable mechanical fixings** (e.g. resin anchors or shield anchors), avoiding adhesives or chemical bonding agents that permanently alter historic masonry.
3. **Preparation**
    - Protect adjacent finishes and heritage features with dust sheets and temporary boarding.
    - Mark fixing positions carefully, prioritising joints over stone/brick faces.
    - Pilot drill holes with conservation-grade methods (low vibration, hand tools where possible).
4. **Fixings**
    - Install **heritage-appropriate radiator brackets** in accordance with manufacturer's guidance.
    - Where necessary, insert **timber pattresses** fixed into mortar joints or fixed over wall panelling to provide a fixing surface without drilling original stone/brick.

- Stainless steel or zinc-plated fixings recommended to prevent corrosion staining on heritage walls.

5. **Installation of Radiator**
   - Position radiator on **cast iron feet** or integrated floor supports first.
   - Offer radiator to the wall brackets – brackets should restrain lateral movement only, not carry full weight.
   - Check level and plumb alignment.
   - Connect to pipework with union couplings and install isolation valves.
6. **Testing and Commissioning**
   - Pressure test the radiator and joints before final finishes.
   - Ensure expansion movement is accommodated without stressing the wall fixings.
   - Flush system, add inhibitor, and balance radiator in system.
7. **Making Good**
   - Minimal and reversible making good to disturbed wall fabric.
   - Lime mortar (not cement) for repointing in historic masonry.
   - Full photographic record of installation for listed building records.

Cast iron radiator fixing examples below;



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Yours sincerely,



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