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C40 CLEANING MASONRY/CONCRETE USING STONEHEALTH DOFF SYSTEM
To be read with Preliminaries/General conditions.

GENERAL/PREPARATION
110 SCOPE OF WORK:

- Drawing reference(s): _____
- The work in this section includes: _____
- Other requirements_____
- Restrictions: _____

120 RELATED REPAIR/REMIDIAL WORKS:
Ensure that the following work has been carried out before the cleaning work commences:
_____

140 REDUNDANT FITTINGS:
Remove the following:
_____

145 TEMPORARY REMOVAL OF FITTINGS:

- Carefully remove _____
- Make arrangements for the safe storage of the items for later refixing. Retain sound fastenings.
- The following are to be removed by others: _____

150 ELECTRICAL EQUIPMENT AND SUPPLIES:
Where necessary ensure that all unprotected electrical supplies and external equipment have been disconnected. If specified, remove fittings and associated cables.

155 VENTS AND GRILLES:
Protect but do not seal up ventilation grilles, air bricks, or other ventilation openings without first seeking instructions.

160 PROTECTION:
Provide and maintain throughout the cleaning works, effective protection and sealing to prevent:

- Ingress of water, cleaning agents, debris and dust into the building via windows, doors, vents and other openings.
- Damage to all components and finishes that can reasonably be protected during cleaning procedures, including lightning conductors, roof coverings, flashings, rainwater goods, glass, metal work, services equipment, signage and pavings.
- Staining of surfaces from ferrous or other reactive metals.

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161 PROTECTION:
In addition to the requirements of clause 160, provide the following:

- Consider protecting historic and other materials e.g. stained glass, plastic, plaster etc.

165 PROTECTIVE MEMBRANES/BOARDS:
- Use approved protective boards, sheetings, films, sealants and sealing tapes that do not stain protected materials and that can be readily removed after cleaning without damaging or staining the protected material.
- Do not use temporary fastenings into components, masonry features and fittings without approval. When fixing into masonry, locate fastenings in joints.

170 DISPOSAL OF WASH WATER:
- Obtain approval from the relevant Authority if residues might be hazardous for the safe disposal of wash water from cleaning the operations.
- Discharge wash water to an approved foul drainage system. Check outlets, gullies, etc. regularly to ensure that they are not blocked.
- Ensure that drains are clear on completion of cleaning work.

WORKMANSHIP GENERALLY
210 HEALTH AND SAFETY:
Take all necessary precautions to protect site operatives and the general public from health hazards associated with the materials and procedures for the cleaning method(s) used.

220 CONDITIONS OF SURFACES:
Before commencing cleaning of each area, ensure that surfaces are in a suitable condition to be cleaned and that:

- Walling and associated features/components are stable and that preparatory repair works are complete.
- Fixtures and fittings have been removed.

230 TRIAL SAMPLES(S):
- Prepare trial samples for each of the following cleaning methods in locations agreed with the CA: Clause C40 _____ Area _____
- Record details of materials and procedures for each sample as specified in the relevant method of cleaning clause.
- Provide the CA with a copy of trial sample records
- Make arrangements to enable the CA and all other interested parties including Conservation Officers and other Heritage where listed. The CA should ascertain and take note of the agreed level of clean that all the interested parties have approved.
- Obtain approval before commencing cleaning.

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240 TEMPERATURE CONDITIONS:

- Do not use water based cleaning procedures when air and surface temperatures are 5ºC or less. Protect damp surfaces from frost during drying out periods.
- Do not use any chemicals when surface temperatures are below those recommended by the manufacturer.

250 CLEANING GENERALLY

- Use operatives who are skilled and Stonehealth Approved, having been trained and experienced with the equipment, materials and procedures for the type(s) of cleaning and surfaces specified. Provide evidence of their training and experience to the CA on request.
- Confine cleaning to designated area(s)/surfaces. Do not allow cleaning agents or residues to stray onto adjacent or protected surfaces.
- Clean, collect and safely dispose of debris from scaffolding, ledges, etc. at the end of each day. Prevent debris falling to lower levels.
- Prevent marking of cleaned areas from dirt and debris splashing up from scaffold boards.

260 MONITORING

- Regularly monitor effects of each cleaning procedure against the degree of cleaning established by approval trial sample(s). Seek instructions immediately, wherever:
  - Disruption to the surface occurs.
  - Anticipated level of surface cleaning is not being achieved.
  - Discolouration or stains are revealed by cleaning.
- Do not modify cleaning procedures or materials without approval from the CA

270 RECORDING CLEANING METHODS:

- Maintain records of cleaning methods used for each area/surface. Include details of equipment type, cleaning agents, ambient temperature conditions and other variables as specified in the relevant method(s) of cleaning clauses(s)
- On completion of cleaning, provide copies of records to the CA.

280 CONTROL OF WATER

- Provide suitable temporary catchment boards/sheeting, gutters etc. to collect wash water and divert it to suitable discharge points. Alternatively or for internal applications use the Stonehealth DOFF Recovery System in conjunction with the Stonehealth DOFF System, ensuring that the waste water is expelled from the discharge hose into the correct catchment area. Location of catchment area(s) _____
- Do not let wash water build up at outlets or above levels of flashings or anywhere where there is risk of it penetrating and causing damage to the building fabric.
- Ensure that water does not penetrate interiors and damage finishes, etc. Monitor interior of building and seek instructions when any signs of damp appear internally.

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310 BRUSHING AND SCRAPING:

Before commencing any other methods of cleaning, remove loosely adhered deposits and heavy deposits of biological matter using suitable corrosion resistant brushes and scrapers/spatulas that do not abrade or gouge the surface. Do not use brushes with steel bristles.

321 TOOLING:

To remove thick encrustations of dirt carbon and limescale etc. it is recommended, providing that:

- The work is carried out by skilled and experienced stone masons.
- The original surface/detail is not removed unless agreed otherwise with the CA.

380 DOFF STEAM CLEANING

- Equipment type – Stonehealth DOFF
- Apply steam at the lowest pressure and allow when removing paint the appropriate temperature that will remove/soften/loosen deposits without abrading or disrupting the surface(s). If a paint softener is required: see also 415. If removing biological growth it may be possible to be removed at a lower temperature but to ensure that the re-growth does not occur, the full temperature of 150ºC should be applied over the whole surface in order to kill off the spores. In such instances there is no need to use a chemical biocide.
- For each area/surface, establish the optimum settings (temperature, volume and pressure), nozzle type and distance of nozzle from substrate. Keep a written record of these variables but allow an operator to vary.
- Assist removal of softened deposits with suitable corrosion resistant brushes and scrapers/spatulas that do not abrade or gouge the surface.

415 CHEMICAL CLEANING – LIQUIDS/GELS (USED AS PAINT SOFTENERS PRIOR TO DOFF

- Chemical agents _____ for each area/surface, establish the lowest possible concentration of agent(s) and the shortest dwell times, number of applications, ambient temperatures and rinsing water temperatures.
- Contain chemical agents and rinsing water/sprays within each treatment area. Do not allow agents or rinsing water/sprays to contact surfaces that are either excluded from cleaning or that have already been cleaned. Prevent wind drift.
- Before each application of agent, wet the surface and adjacent areas using clean water applied by low pressure spray. Test for pH of wetted surface as clause 400
- Apply cleaning agent evenly and do not allow drying out.
- Rinse treated surfaces thoroughly and evenly with clean water working from the bottom of each area upwards. Do not use water spray pressures that will drive cleaning agents into, or cause disruption of, the surface material and joints.
- Carry out pH testing and neutralisation procedures as clauses 400 and 405.

520 COMPLETION:

- Obtain CA's approval of cleaning to each area/surface and before removal of temporary protection.
- After removal of temporary protection, thoroughly clean all glazing, window frames, doors, sills and other affected surfaces.
- Check that all gutters, hoppers, downpipes and gullies are free from obstruction and debris arising from cleaning works.
- Give the CA _____ notice before striking each stage of scaffolding, to allow for final inspections.
- Refix the following fittings: _____
- Complete all necessary documentation, review and record final results with supportive drawings and photographs.

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