

# INTERNATIONAL PROJECTS



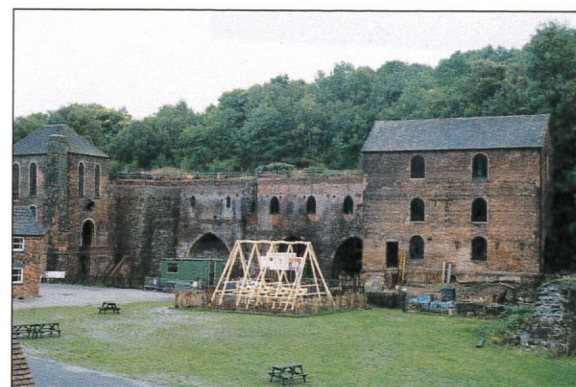
Battle Creek, Battlefield Memorial, Ontario.



Bartletts Ferry Dam, Georgia, USA.



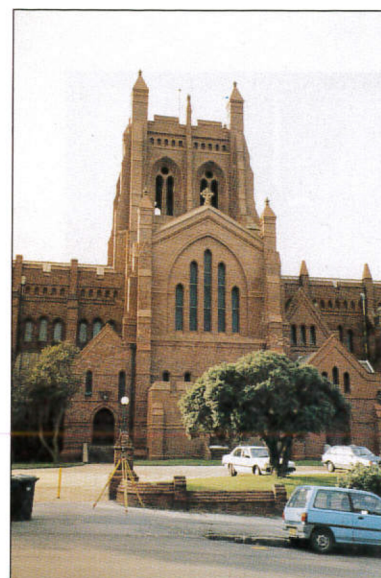
Madison Ave, New York, USA.



Blists Hill Blast Furnaces, U.K.



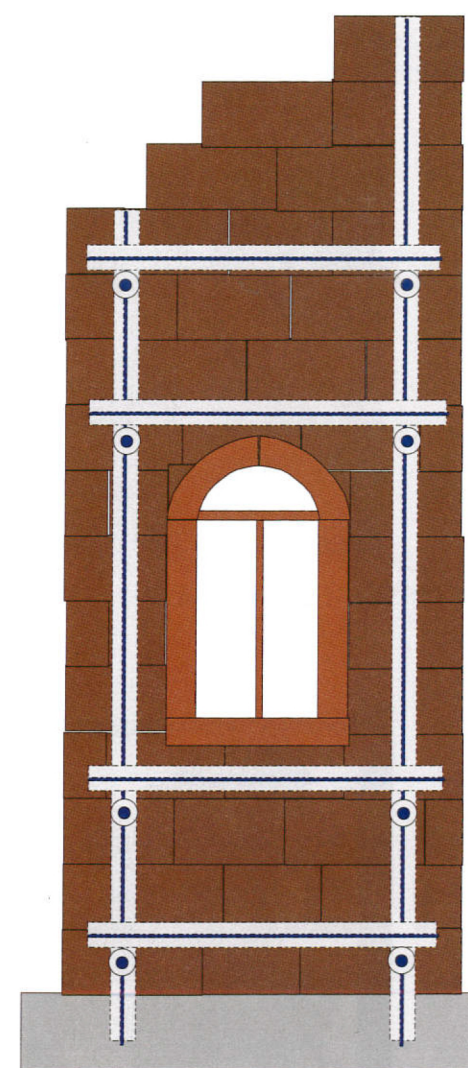
Arundel Castle, U.K.



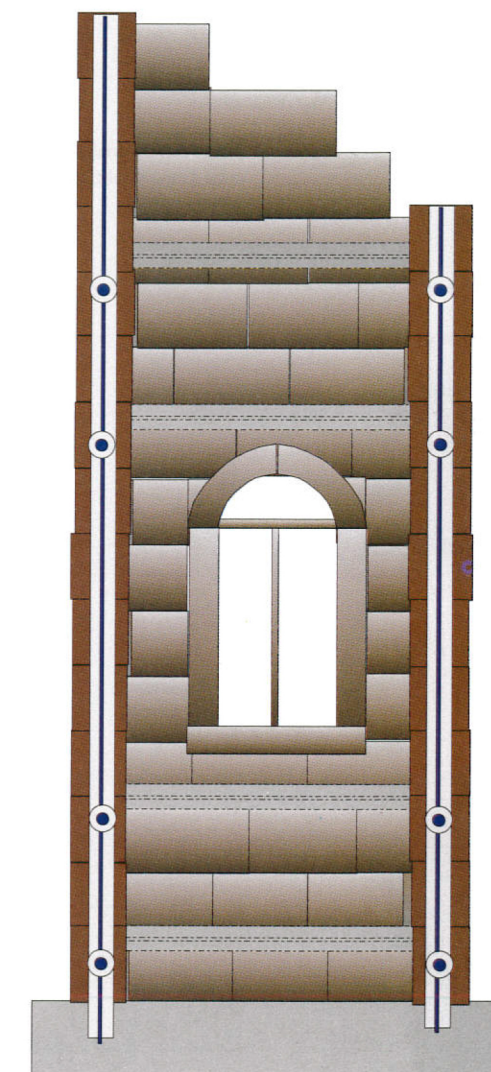
Christ Church Cathedral, Newcastle, Australia.

# SPINETEC

The connection of anchors within structures.



elevation



section

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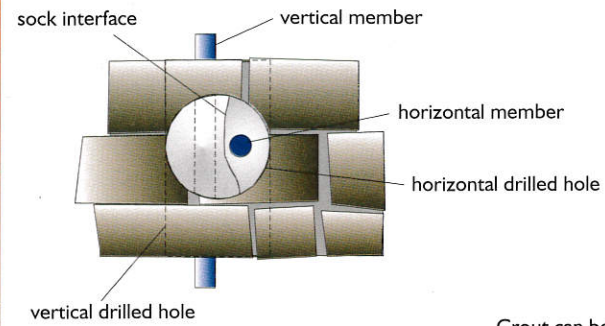
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Method of providing an internal spine of steel into the core of a weak structure. The connection of anchors within structures.

**Interlocking sock method**

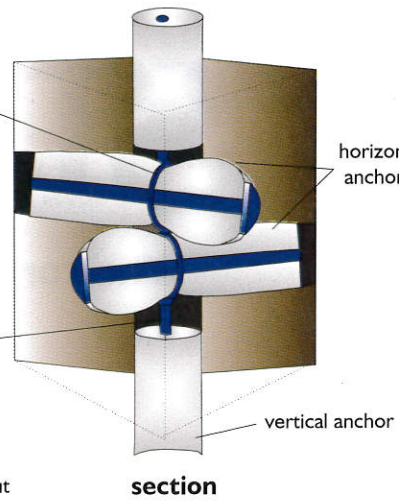


**Dimensions dependent on loads required and parent material strengths**

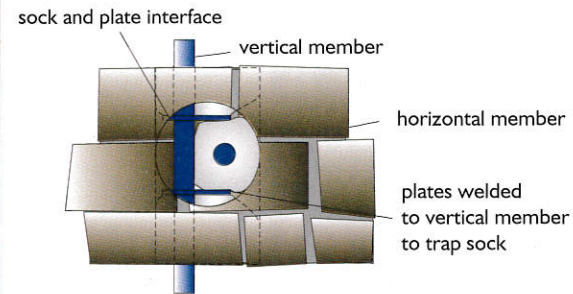
Intersecting rings, squares or rectangles attached to main body with either welded or screw fixings

anchor body to be solid, SHS or CHS. mild, stainless or high tensile steel

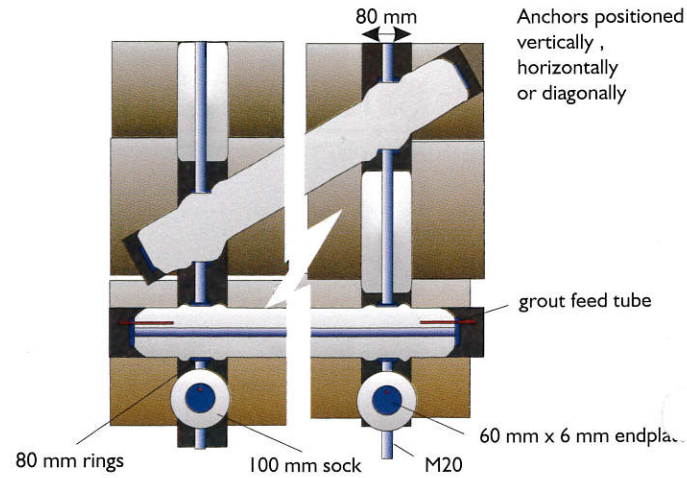
Anchor sizes, drilled hole sizes dependent on structure and layout



**Interlocking sock joint**

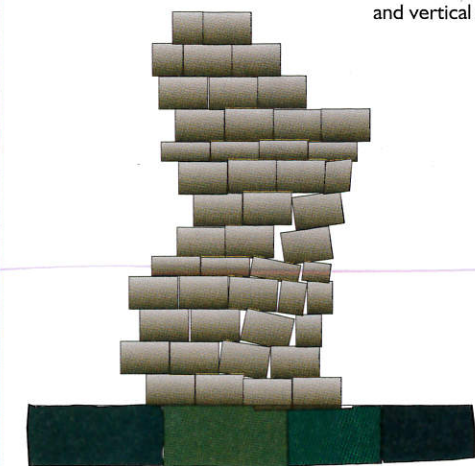


Grout can be designed to be sympathetic to parent material



**Installation technique**

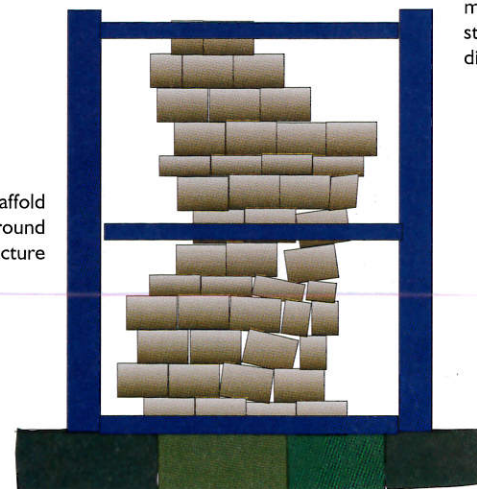
Phase 1 detailed survey of structure including detailed horizontal and vertical dimensions.



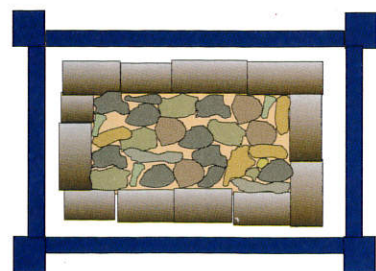
ELEVATION

Phase 2 Erect purpose designed metal jig to surround structure with known dimensions

Purposed built scaffold jig erected around structure

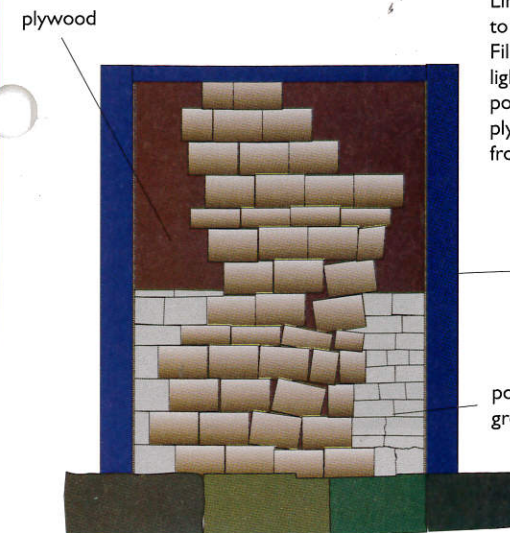


PLAN

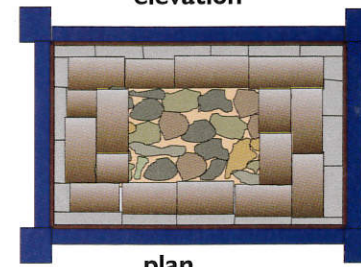


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Phase 3 Line scaffold with plywood to totally enclose structure. Fill polythene bags with lightweight grout and position them between plywood and masonry from the bottom up.



elevation

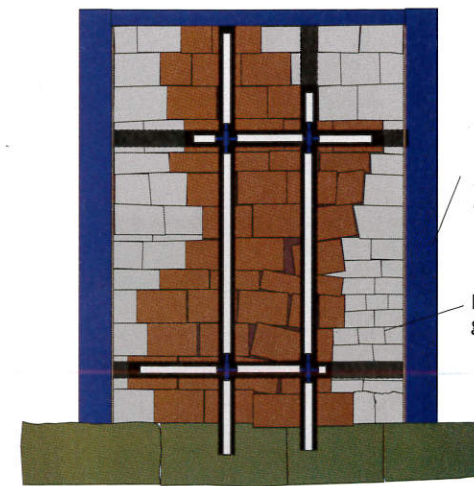


plan

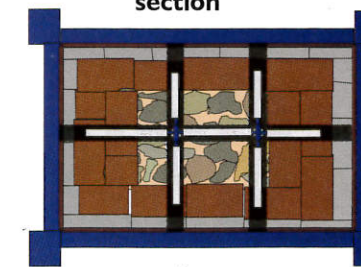
Purposed built scaffold jig erected around structure

polythene bags grout filled

Phase 5 Carefully set anchors in predetermined holes



section

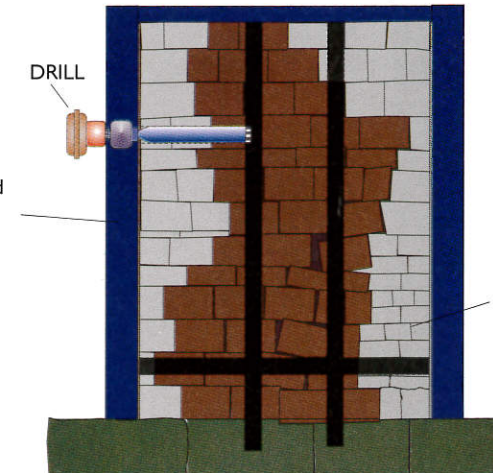


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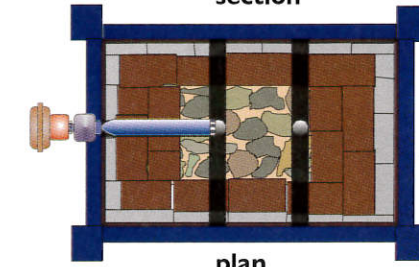
Purposed built scaffold jig erected around structure

polythene bags grout filled

Phase 4 Carefully set location of vertical and horizontal anchor positions. Diamond drill hole from the supporting jig.



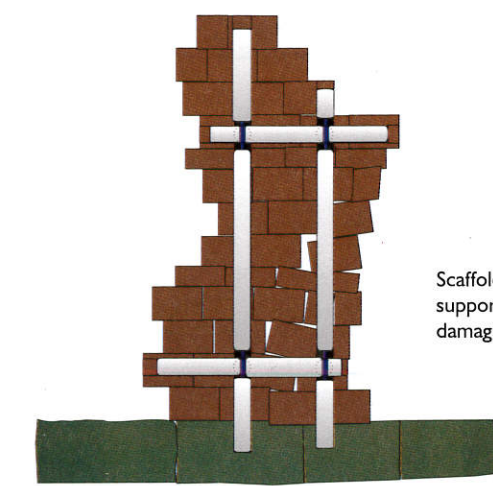
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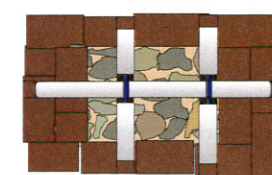
plan

polythene bags grout filled

Phase 6 anchors are inflated and the masonry cores reinstated



section



plan

Scaffold and temporary supports removed without damaging structure.

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