

Protection against frost, application of wall-plates, templates, discharging arches, lintels, construction of brick arches, general rule as to brick-work, tools used in brick-work.

#### DRAWING FOR BRICKLAYERS.

Drawing for bricklayers. Examples of rough arch, square-headed windows, extrados, intrados, centreing, square-headed doors, with relieving arch and tie-rod, segment arched windows, Gothic arch in birch wood, with centreing.

#### WOODWORK.

Scantling, modes of lengthening timbers, strapping, bolting, fishing, halving, scarfing, trussed girders, joints in timbers, notching, morticing, fox-tail joint, tennon.

#### CONSTRUCTING OF ROOFS.

Gable, hip, mansard, tie beam, rafters, principal and common rafters, king-post, strap, queen posts, arch track, straining beam, struts, purlin, determination of stresses in roofs, wind and snow pressure.

#### CONSTRUCTION OF FLOORS.

Single floors, trimming, arch and joist, herring-bone truss, sound boards, double floors, binders, ceiling joists, framed floors, floor boards, square-edged, rebated, ploughed, tongued and dowelled.

#### PARTITIONS.

Principles of construction, fire-proof, must form portion of carcass.

#### JOINERY.

How distinguished from carpentry, mitre-joint, dove-tail joint, staircase, general construction, bracket staircase, dog-legged staircase.

#### FIRE-PROOF CONSTRUCTION.

Behaviour of various building materials under fire, fire-proof layers.

#### GENERAL ARRANGEMENTS.

Cellars, drainage, sewerage connections, ventilation, traps, warming, water supply, ready egress, in case of fire, doors opening outwards.

#### SUB-SECTIONS B AND C.

Sub-section A will be continued so as to embrace the designing of domestic buildings and of public buildings, for civil and military purposes.

SUB-SECTION (A)

Stone work  
shingling, painting