The Carpenters' Craft Competition

2022-23 Framed, Ledged & Braced Door

PLEASE READ & COMPLY WITH THESE INSTRUCTIONS CAREFULLY

Technical Instructions to Candidates

Prepare and assemble the door frame and framed, ledged & braced door, in every aspect, mortised, tenoned and wedged in the traditional way. All surfaces are to be left smooth and free from scratches, and suitable for a clear finish. It must, however, be left in the white; any further treatment of the timber will be penalized.

The **frame** jambs (4) are stopped housed on the external face using a 12mm x 12mm housing in the head (1) and through housed on the internal face. The jambs (4) are mortised and tenoned to the sill (2), using 30mm wide tenons, in the traditional way and should be glued and wedged (15) together. A transom (3) is mortised, tenoned & wedged to the jambs (4) in a position allowing 135mm clear for the positioning of the two louvres (13); the bottom louvre slightly overhangs the transom to act as a drip for the door. These louvres (13) are housed into the jambs (4) in a 12mm x12mm housing positioned at 50° to the vertical. A sill projection (5) is tongued into the sill (2) in an 8mm x 6mm groove and glued into position; the weathering is at 10° and has a 5mm radius worked on the face edge; it also has a 6mm diameter drip groove. A mortar groove 15mm x 5mm to be worked in the outer sides of the frame as shown on the drawing.

The **door** is to be constructed in the traditional way using 9mm thick through mortises, haunched tenons where needed, barefaced tenons as required. The top rail tenon should be 10mm from the face of the door and 13mm from the rear. The T,V&G boarding (10) is to be tongued into the stiles (8) and top rail (6) in a 6mm x 6mm groove. The centre board (10), of the three, is to finish 80mm wide on face and the two outer boards are to have the same width face finish but will be narrower; the candidate must calculate these widths. A 3mm x 3mm chamfer is used around all adjoining edges of the boarding & frame, on the external elevation, as shown on the drawing. The T,V&G boarding (10) should be skew nailed, from the external face using 32mm oval brads (15), to give better fixing and to prevent the nails penetrating through the brace (9) and bottom rail (7); should the nails penetrate through to the internal face, clench them over in the traditional way. **All** nails should be punched slightly below the surface. The brace (9) is to be let into the top (6) & bottom (7) rails as shown on the drawing, (see hidden detail on external elevation), and fixed by traditional skew nailing. The distance from the stile (8) to the position where the brace (9) is let into the top (6) & bottom (7) rails is 20mm; the distance from the edge of the rails to the deepest part of the sinkings is 10mm. The top edge of the bottom rail (7) is to be left square and not weathered. The door is to be hung on a pair of 75mm steel hinges (14), in the position shown on the drawing and housed into the door stile and frame. The centre part of the pivot should be positioned slightly above the top surface of the face of the door & frame, i.e. the knuckle should not be fully exposed. The leading edge of the shutting stile (8) should be undershot to allow clearance with the jamb (4). The door stop (11:12) should be nailed to the transom (3) and the jambs (4) using 25mm brads (15) allowing a 1mm clearance on the hinge side and allow flush fitting of the door on the shutting stile (8).

Candidates should ensure that the finished project shall appear as attractive as possible and the judging will be on accuracy, good shape, dimensions, fit of joints, flatness, and smoothness of finish. The model has been designed to be used as part of the practical course assessment work and all work must be carried out by the candidate. The candidate may use Portable Power Tools, under strict supervision and having passed prior training at appropriate grades. Professionally prepared timber may be used but all mouldings, rebates etc must be carried out by the candidate.

NB: All dimensions are in millimetres and all finished sizes stated on material list. The numbers in brackets refer to the material list item. **Weatherings are 10º; Louvres are 50º to the vertical.** The complete job, door frame and the framed, ledged & braced door, is to be made from quality softwood i.e., no knots if possible! Any design and/or constructional detail that is not given is left to the candidates' own initiative and is to be carried out in conjunction with good commercial and industrial practice and in keeping with the overall design of the frame and door. Any variance between the drawing, material list, specification and marking schedule should be brought to the attention of the CCC Manager. **Only selected hidden detail has been used to enhance identification and prevent confusion.**

Please note: The original drawing is at A2 size but in reducing to A3 & A4 size the individual member dimensions get distorted. It is therefore necessary to use the material list for the accurate dimensions, so regard the A4 drawing as 'not to scale'. Should you require an A3 drawing, please contact the competition manager.

Packing and Dispatch

IF YOU WANT A MODEL RETURNED, YOU MUST COMPLY WITH THE FOLLOWING:

The work MUST be securely cased INDIVIDUALLY and labelled for return – packaging to be by light framework covered with 6mm ply and kept to a minimum overall size - if these instructions are not met, then the model will not be returned. Parcel Post should accept this size of package at most depots.