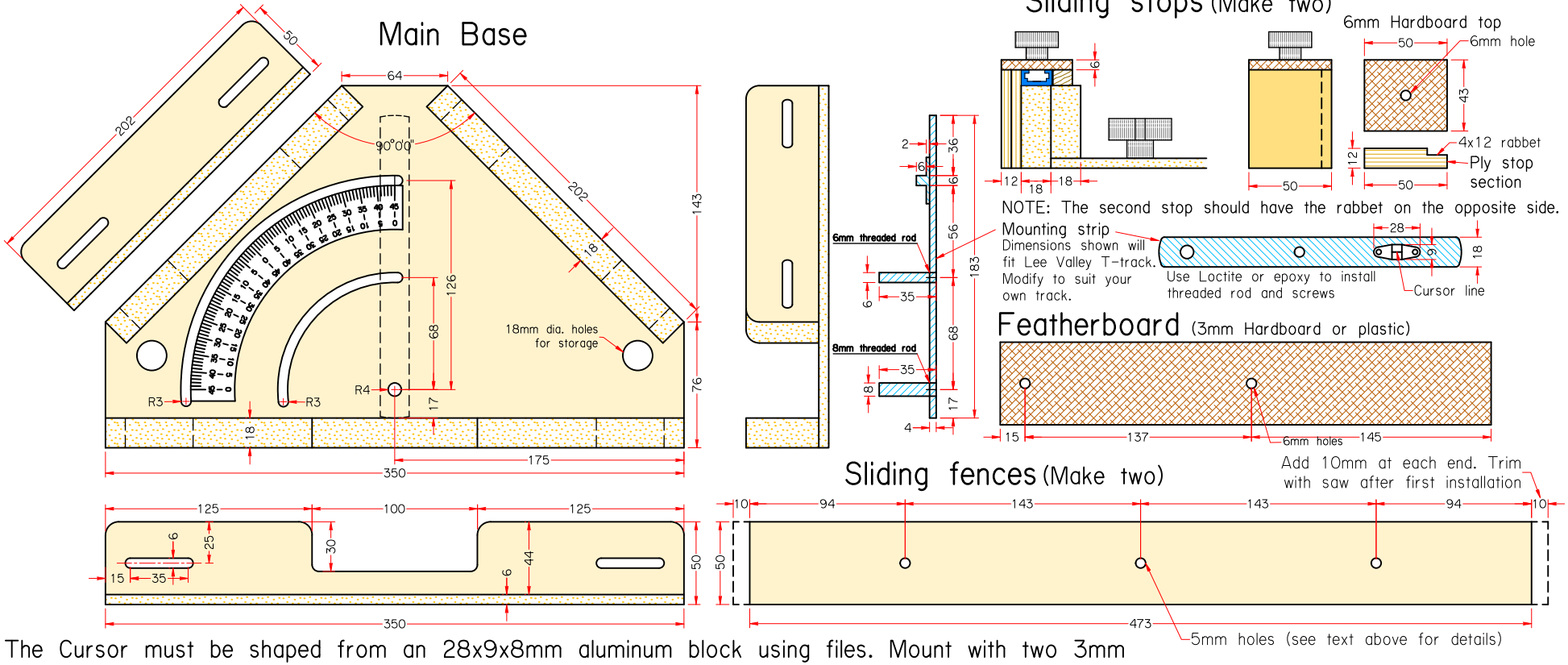
COMPACT MITER FENCE – Construction

Base – 6mm MDF | Fences – 18mm MDF | Carefully draw and cut Base. Check 90° angle at apex with drafting square. Mark the 8mm pivot hole and scribe a vertical line up to the apex and a second horizontal line to the left, parallel to the large lower edge. These lines will mark the position and size of the angular scale. They must be kept visible even after painting the Base. Carefully rout the two 6mm wide arcs using the 8mm drilled pivot hole as center. Drill mounting holes. All slots in fixed fences should be placed as indicated in the large front fence. Dry assemble with countersunk screws from below and check for inconsistencies before final gluing and screwing. Make the Mounting Strip and test for smooth operation both of insertion and sliding into the T-track as well as for rotating the unit along its 90° path. Make two identical sliding fences. These shold be about 10mm longer at each end and trimmed with the saw upon its first installation. They have three 6mm threaded rods 40mm long. Drill 5mm holes 15mm deep and tap the thread or screw the rods using a wrench and two nuts locked to each other. Mount with glue, CA or epoxy. Remove nuts after assembly. Add T-track on top. Use plastic knobs or wingnuts to mount sliding fences.



The Cursor must be shaped from an 28x9x8mm aluminum block using files. Mount with two 3mm countersink head screws from below. Shape the cursor turret to slide smoothly inside the routed arc. Cut the cursor line with a very fine saw or use a scribing pin. Paint black.

Drawing not to scale