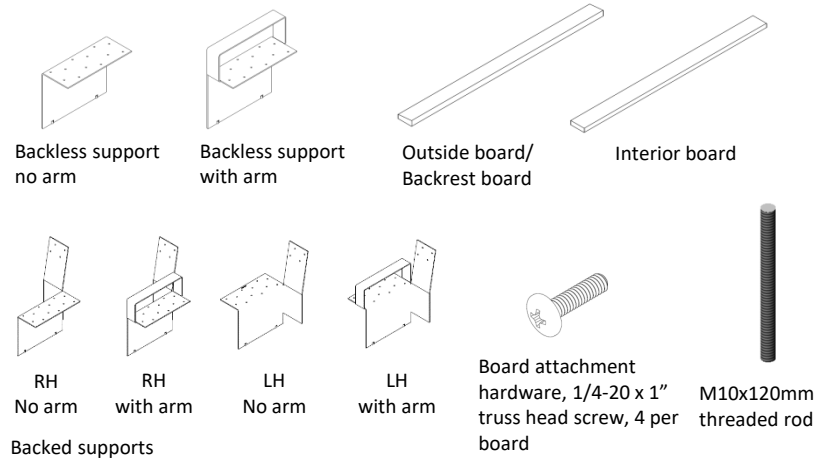


### Bench options

#### Included components:



#### Tools required:

- #3 Phillips screwdriver
- For anchor holes:  $\varnothing 7/16$ " drill
- Chemical anchoring adhesive, if specified
- Proper personnel for lifting bench

**ASSEMBLE WITH CARE!** Pangard II® Polyester Powdercoat is a strong, long-lasting finish. To protect this finish during assembly, place unwrapped powdercoated parts on packaging foam or other non-marring surface. Do not place or slide powdercoated parts on concrete or other hard or textured surface – this will damage the finish causing rust to occur. Use touch-up paint on any gouges in the finish caused by assembly tools.

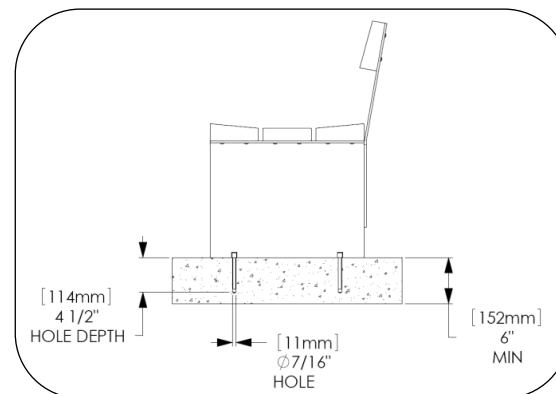


Fig. 1 – Drilled hole size, board orientation

#### INSTALLATION PROCEDURE:

**Note:** Interior seat boards are rectangular. Remaining boards are wedge-shaped. Seat boards and backrest boards may be different lengths. Refer to Fig. 8 for proper location of boards, depending on bench length. Backed supports are stamped “RH” for right-hand and “LH” for left-hand. Verify proper orientation before drilling holes.

1. Drill holes as shown in Fig. 2 as required per specified bench. Clear holes of debris.
2. Install threaded rods into supports.
3. Position first two supports so threaded rods drop into the drilled holes as shown in Fig. 4. Refer to Fig 8 for support placement for different bench styles.
4. Fasten seat boards and back board (if specified) as shown in Fig. 1, using board attachment hardware as shown in Fig. 3. Leave screws slightly loose until entire bench has been assembled.
5. Set next support in position and attach boards.
6. Tighten all screws and remove any burrs from screw heads.

#### For optional anchoring adhesive installation:

1. Follow steps 1 and 2 above.
2. Position first two supports as close to the drilled holes as possible without blocking access for dispensing adhesive. Refer to Fig 8 for support placement for different bench styles.
3. Follow steps 4 and 5 above.
4. Clean the drilled holes according to adhesive manufacturer’s instructions.
5. Dispense adhesive into the holes, filling from the bottom to 2-1/2" from the top.
6. Using proper personnel, move the bench into position. Adhesive should rise to the top of the hole. Wipe away excess adhesive from supports.
7. Tighten all screws and remove any burrs from screw heads.

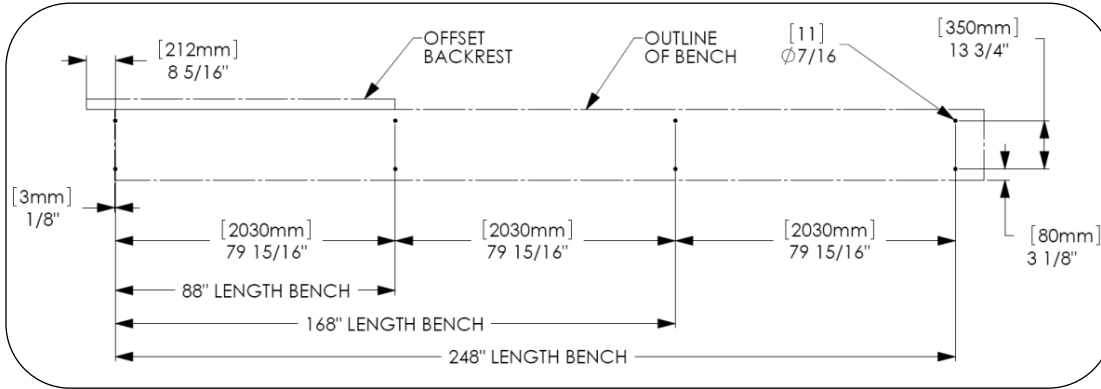


Fig. 2 – Anchor locations

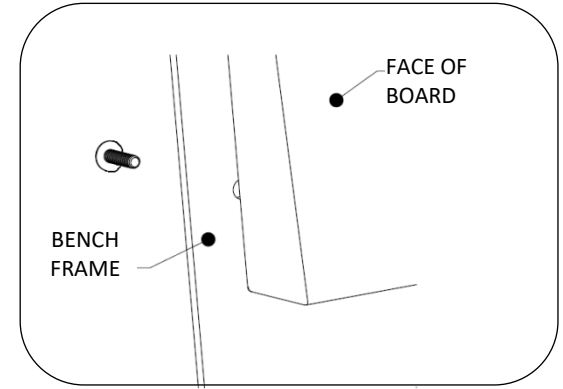


Fig. 3 – Board attachment hardware

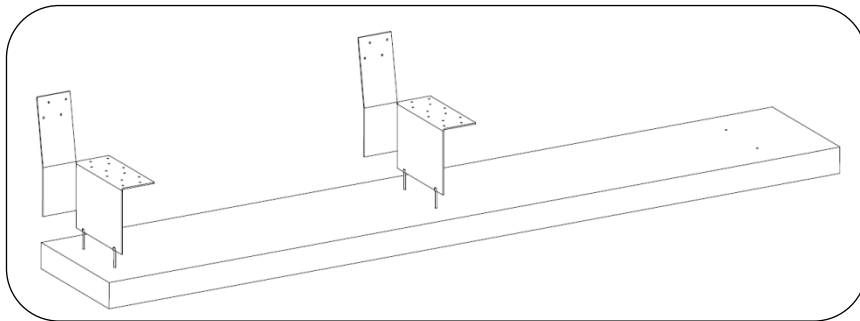


Fig. 4 – Step 1

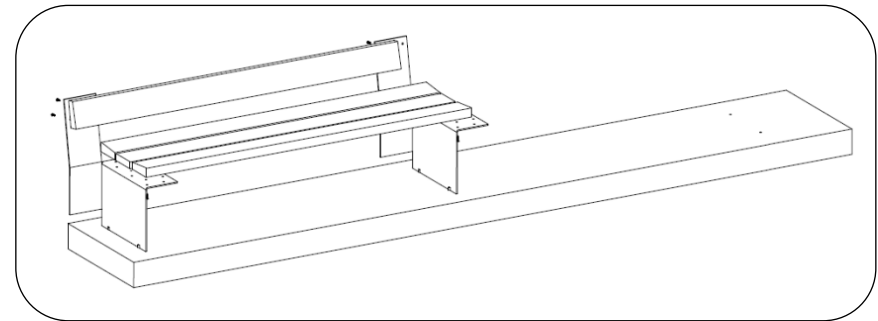


Fig. 5 – Step 2

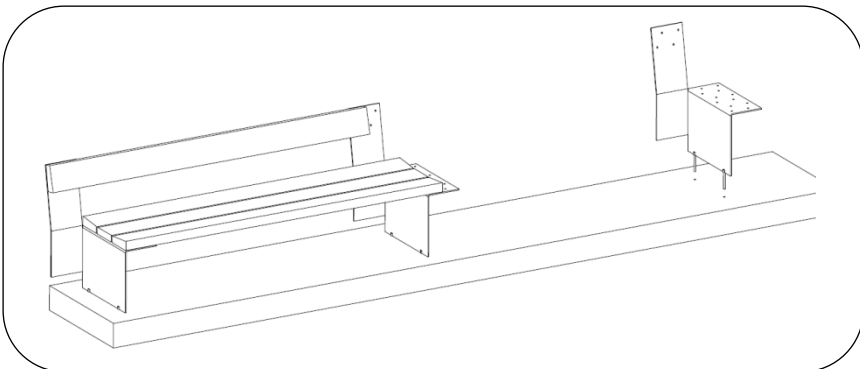


Fig. 6 – Step 3

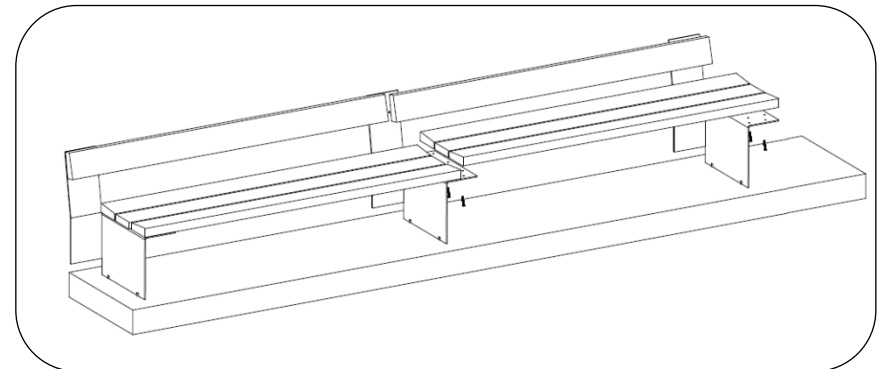


Fig. 7 – Step 4

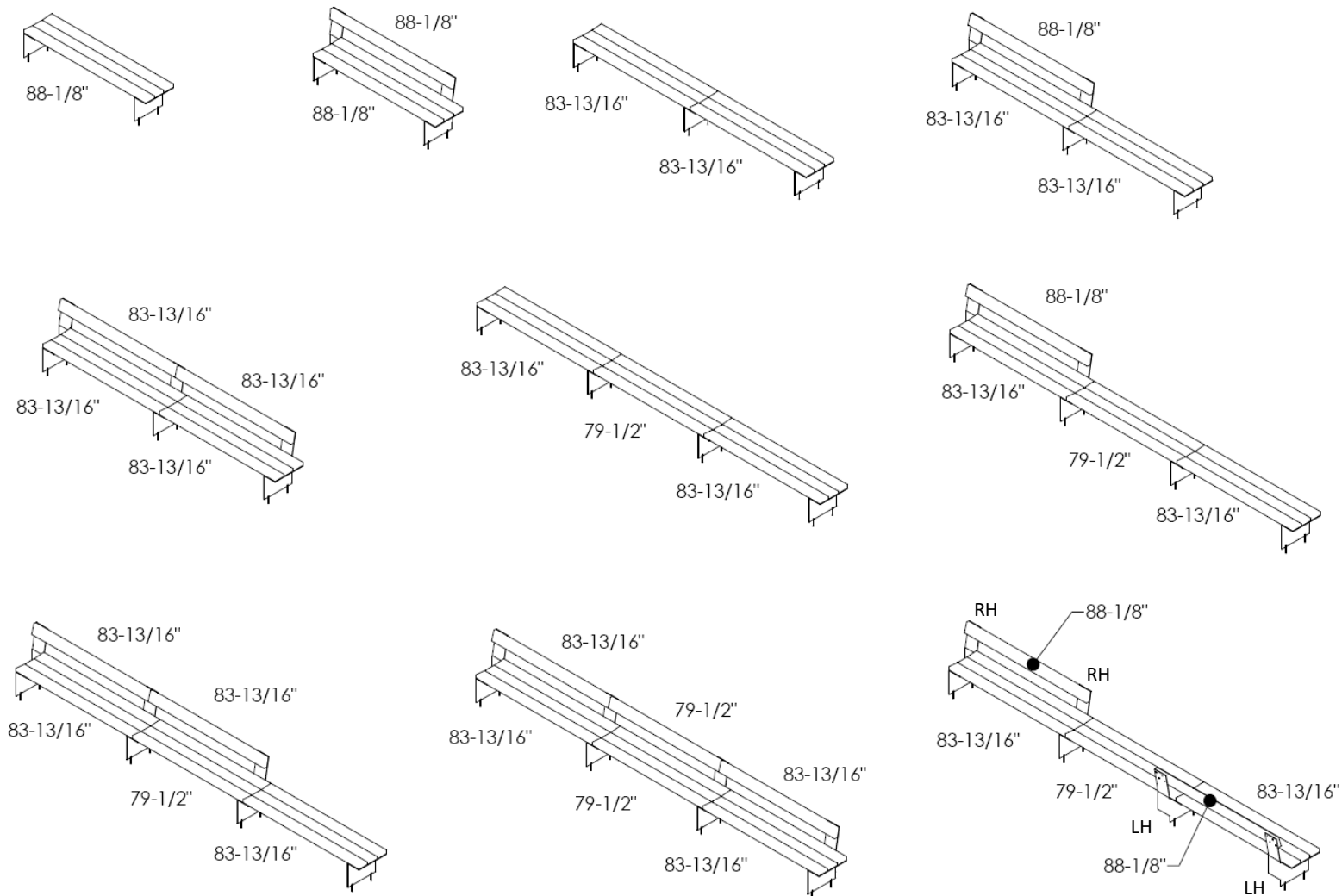


Fig. 8 – Board length locations and support orientations. Not all configurations are shown.

**OPTIONAL SCREW INSTALLATION:**

After assembly, some supports may have holes with no screws installed, see Fig. 9. These can be left empty with no loss of bench integrity. However, optional screws may be installed in these locations for cosmetic purposes.

1. Once bench assembly is complete, optional screws may be installed in the unused support holes.
2. Drill pilot holes in wood boards, using  $\varnothing 15/64$ " drill bit to a 1" depth.
3. Install 1/4-20 x 1" screws, see Fig. 9.

**OPTIONAL SUPPORT ORIENTATION FOR BACKLESS BENCH USED WITH BANCAL TABLE:**

The 88in backless bench is designed to be used with the Bancal 88in picnic table. End supports can be installed as shown in Fig. 10 to align with table supports. For this installation option, refer to table installation guide for recommended spacing. Bench should be assembled and set in place to mark hole locations for anchoring. Do not use spacing dimensions noted in Fig. 2 when installing the bench with the table.

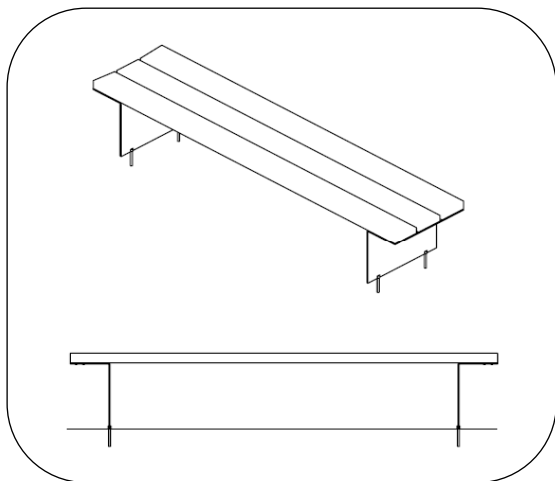


Fig. 10 – alternate support orientation  
for use with picnic table

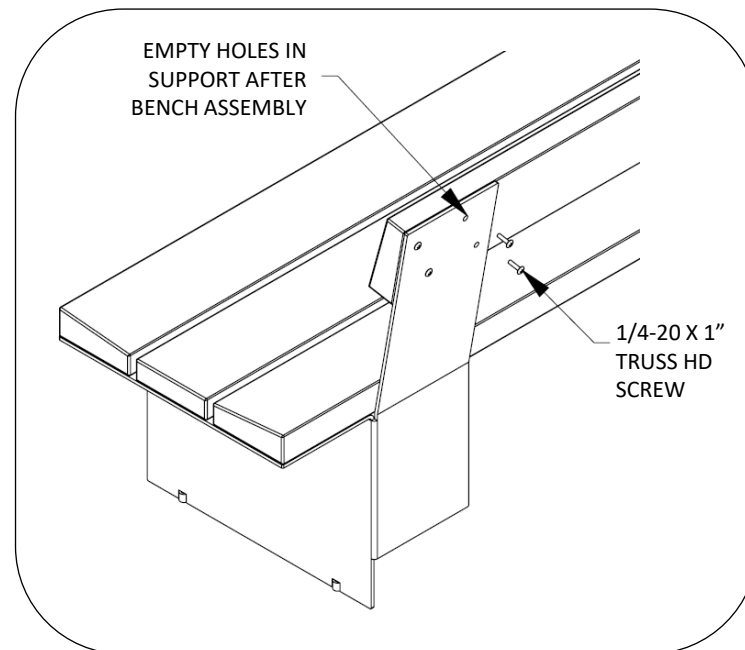


Fig. 9 – optional screw installation