Mueller Backyard Building Kits are not engineered structures and do not meet any specific building code criteria.

For video installation instructions, visit our website at www.muellerinc.com/downloads-home/videos-home

12' x 21' x 8' Backyard Building with Optional Center Girts and Floor Kit Instructions

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PARTS LIST

Refer to the parts list on the itemized invoice delivered with your building. All parts are stenciled on the inside of the channel, purlin, girts and rafters. Example of this below:
TYPES OF SCREWS

TEK Screw
For attaching sheet metal to purlin

Lap TEK Screw
For attaching sheet metal to sheet metal

NOTE: Make sure to use TEK screws to attach sheets to purlins, lap TEK screws to attach sheets to sheets.
BASE LAYOUT (BC-1 AND BP-1)

NOTE: Leading and trailing edge of channels are overbent for a tight fit. Spread apart as needed to nest the purlin into the channel.

STEP 1
Insert BP-1 into BC-1

STEP 2
Add MKB-1 (Galvanized MKB-2) to top of BP-1 into BC-1

STEP 3

Leveling and proper blocking is critical for the base layout.
MAKE SURE THE ASSEMBLY IS SQUARE

NOTE: Mueller recommends the building be placed on leveling blocks (not included) to support the base channel and purlins. Mueller also recommends the building be anchored to the ground or foundation. The method of anchor is at the owner’s discretion.
FLOOR KIT (OPTIONAL)

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FLOOR KIT (OPTIONAL)

OPTION 1
Notching

OPTION 2
Slotting
Slotting is for column flange

Notch plywood 6 ¾" x 6' 3 ½" to allow for roll up door installation (base channel is covered by RUD Flashing #1702). Mark the center of the building and use notch dimensions above to create the correct notch location.

DO NOT NOTCH PLYWOOD IF USING OPTIONAL DOUBLE WALK DOOR
ERECTING COLUMNS (C-1)

Attach column to MKB-1 (Galvanized MKB-2) clip using 1/2"x1" Fin Head Bolts

**HINT:** Add clips to top of columns before standing up.
RAFTERS (R-1)

Bolts should remain loose until EC-1 is installed.
EAVE CHANNEL (EC-1)

Tighten bolts after EC-1 is installed.
MAKE SURE THE ASSEMBLY IS SQUARE AND LEVEL

Make sure the assembly is square. Assembly is square when the corner to corner measurements are equal. Use temporary bracing (not included) to hold assembly square if required.
DOOR AND DOOR TRIM (R-1 AND BP-1)
ROOF PURLIN (RP-1)

Open side of RP-1 faces to center of building
DOOR AND DOOR TRIM (DC-1)
DOOR AND DOOR TRIM (MKB1 CLIPS)
DOOR JAMBS (C-1)
DOOR HEADER (DH-1)
DOOR TRIM AND MID-GIRTS
(OPTIONAL - MG-1, MG-2 AND MG-3)

NOTE: Bolt to inside of column leg

NOTE: If using optional walk door, set jamb trim inside measurement at 5’ 10 ¼”.

To attach MG-3, use TEK screws to go through door trim, door frame and girt.
WINDOW (OPTIONAL)

Start sheet 3/4" past steel line. Sheet 1" above bottom of base channel.

NOTE: Sheets below window will need to be field cut for window assembly. Insert window and flap flush to sheet. Add drip edge window trim when installing eave trim. See installation instructions included with the window packaging.
SHEETING SCREW PLACEMENT

WALL SHEETS

Lap TEK Screw  TEK Screw  TEK Screw  TEK Screw

10"  12"  12"  36"

ROOF SHEETS

Lap TEK Screw  TEK Screw  TEK Screw  TEK Screw

10"  12"  12"  36"

Place sealer tape between roof sheets only.

NOTE: Make sure to use TEK screws to attach sheets to purlins, lap TEK screws to attach sheets to sheets.
SHEETING

NOTE: Make sure the frame is plumb and level, and tighten all bolts prior to sheeting. Repeat for each wall.

NOTE: For side with door, start sheets flush with J-trim on both sides of the door.
SHEETING ENDWALL WITH RUD DOOR
To install the RUD, see the RUD video and instructions.

IMPORTANT: 1" above the bottom of the base channel

NOTE: If using optional walk door, set jamb trim inside measurement at 5' 10 ⅛".

NOTE: Start sheets inside of J-Trim 1" above the bottom of the base purlin
SHEETING SIDEWALL

NOTE: Start sheets 1" above the bottom of the base channel and 1" out from endwall
SHEETING ENDWALL WITHOUT DOOR

NOTE: Start sheets 1" above the bottom of the base purlin and 1" out from the sidewall.
CORNER TRIM
BACK SIDE WALL

Roof to wall sheet alignment

Align major ribs from wall to major rib on roof

**NOTE:** Make sure panels remain square during installation.
SHEETING THE ROOF

Align roof sheets with wall sheets
Place sealer tape between roof sheets to avoid leaks

CAUTION: Use scaffold boards (not included) when installing roof panel sheets/trim

NOTE: Use TEK screws at the purlins
Use Lap TEK screws every 20” vertically
ROOFING TRIM DETAILS

CAUTION: Use scaffold boards (not included) for support while installing roof sheets and trim.

NOTE: A chalk line will assist in closure and ridge roll placement.
SKYLIGHT RIDGE ROLL INSTALLATION

CAUTION: Use scaffold boards (not included) for support while installing roof sheets and trim

HINT: Screw corner of ridge roll and middle first to maintain pitch. Install remainder of screws.

Install lap screws on ridge roll every 12 inches.
TOTAL BUILDING MEASUREMENTS

- 12'2"
- 21'2"
- 8'2"
- 8'10"