



Wire Mesh Partitions - Material Specifications

1. **Wire Mesh Infill** (As Indicated on Quote)
 - **Standard:** #10 W&M Gauge (0.130 in.), bright basic wire welded into a 2" x 2" square mesh.
 - **Heavy-Duty:** #6 W&M Gauge (0.192 in.), bright basic wire welded into a 2" x 2" square mesh.
 - **Optional:** #10 W&M Gauge (0.130 in.), triple crimped bright basic wire woven into 1-1/2" diamond mesh.
 - Other mesh and material types available, upon request
2. **Panels:** Standard panel sizes are in one foot increments up to 5 feet by 10 feet in size. Horizontal and vertical frame members constructed from 1-1/4" x 1-1/4" x 1/8" hot rolled angle, with 1-1/4" x 3/8" slotted holes punched every 12 inches on center (O.C.). Vertical frame members are notched and welded to horizontal angle at corner seams. Wire mesh is securely welded to frame and stiffener bars, when required, are welded to mesh and horizontal frame members. Wire mesh position in angle frame may vary slightly.
3. **Panel stiffener bar:** 1/4" x 3/4" thick hot rolled flat stock, center located and tack welded to wire mesh and horizontal frames on panels. Used only on 10-gauge wire mesh materials and panels greater than 5 feet long in any direction. 1/4" x 3/4" thick hot rolled flat stock, center located and tack welded to wire mesh and horizontal frames.
4. **Posts:** 14-Gauge 2" x 2" square tube with a series of 7/16" diameter holes drilled on all four sides to accept hardware to connect panels and doors. Standard posts, ranging from 7'-2" to 12'-2" in one foot increments, are drilled with first hole at 8" above the finished floor and spaced every 12" O.C. leaving a 2" maintenance sweep space below the panels and doors. Tube is welded centered on a 2" x 7" x 1/4" steel flat base plate on standard posts. Base plate is punched to accept two 3/8" diameter anchors. Other base plate sizes are available upon request.
5. **Post extensions:** 12-Gauge 1-3/4" x 1-3/4" square tube 18" long, and perforated with 7/16" round holes every 12" O.C. Post extension drops in to lower post and bolts to both lower and upper post sections.
6. **Growth plates:** 12-Gauge 2" x 1-1/4" X 1-1/4" steel channel punched with 3/8" holes every 12" O.C. Growth plates bolt to panels, posts, and ceiling panels to offset 2" growth created by posts.
 - Growth plates can also be specified to fill maintenance sweep space below panels and doors for higher security requirements.
7. **Hinge Doors (if quoted):** Constructed of the same materials as panels with a 3-sided lock plate welded to accommodate either padlock or cylinder lock. Complete with all necessary mounting hardware to install and operate. Includes a separate hinge assembly consisting of three 3" x 3" butt hinges welded to a 3/16" x 1-1/4" steel flat cut 7-inches short of overall door height and drilled to match post holes. Assembly can be flipped to accommodate either in or out swinging doors. Door panels are sized slightly smaller than actual door opening.
 - **Padlock Arrangement:** 1-1/4" lug welded to a 4" x 6" plate and inserted through latch hole in door and bolted to a second 4" x 6" steel plate placed on the inside of door. Includes:
 - i. Two 1-1/2" punched angle clips are provided to bolt to lock side of door angle, to act as stops.
 - **Cylinder Lock:** Mortise type with keyed different cylinder operated by key outside and recessed knob inside. Self-latching. Includes:

- i. One 1-1/2" x 1-1/4" steel "slam" angle, punched to attach to lock side of door. Slam angle is reversible to accommodate either in or out swinging doors.
 - ii. One steel angle receiver with catches for both in and out swinging doors.
8. **Slide Doors (if quoted):** Constructed of the same materials as panels with a 3-sided lock plate welded to accommodate either padlock or cylinder lock. Complete with all necessary mounting hardware to install and operate. Prepared to accept standard mortise cylinder lock or padlock hasp. Doors are sized exactly to door opening (less sweep space). Growth plate bolts to non-lock side of door to create security overhang with non-lock side post.
 - **Hardware:** Two 2-wheel trolleys rolling in an enclosed track, roller door guide, and heavy-duty 30" lock receiver. Track is captured using a 2-7/8" x 1-3/4" galvanized steel bracket that mounts to a 3/8" formed bracket holder to bolt directly to posts.
 - **Padlock Arrangement:** 1-1/2" lug attached to lock receiver.
 - **Cylinder Lock:** Mortise type with keyed different cylinder operated by key outside and recessed knob inside. Self-latching.
9. **Service Window (if quoted):** 24" wide x 21-1/2" high opening with a 23-1/4" wide x 12" deep, 12-gauge shelf centered in opening. Secured to base with four 1-1/4" x 12" long brackets secured by 1/4" x 1/2" hex head bolts and nuts. Window panel constructed of the same materials as standard panels and has spring bolt latches welded at bottom corners for securing in the open position.
10. **Flex Panels (if quoted):** Two, 8", 16-gauge sheet steel punched and formed. (for openings from 3" – 14"). Panels connect from face-to-face through punched holes using 1/4" x 1/2" carriage bolt hardware.
11. **Wall Connections (if quoted):** 1-1/2" steel angle clips, punched to allow for anchoring to wall and attachment to posts using self-tapping screws.
12. **Hardware:** 5/16" carriage bolts and flanged hex nuts for all panel-to-panel, panel/door to post connections. 7/16" black plastic dome plugs are provided for any unused holes in the posts. 3/8" x 3" concrete wedge expansion floor anchors are included; **other anchors are the responsibility of the erector.**
13. **Field Bracing:** Materials to stabilize the system are not provided, **and are the responsibility of the erector**, unless specifically called out in your quotation. Manufacturer suggests that overhead or lateral bracing be considered on heights over 10' and on runs longer than 20' in any direction, although floors or other environmental factors may require additional bracing.
14. **Finish (per quote):** Two stage phosphate wash with a standard powder coat finish of Beast Black or optional SpaceGuard Gray. Manufacturer also offers Pure Orange, Signal Blue, Carmine Red, Leaf Green, Zinc Yellow and Sky White for an upcharge. Custom colors and color matches are also available for an additional charge. Hot dip galvanizing is also available for an additional upcharge. Aerosol touch-up is provided with each shipment unless a custom color.

WIRE MESH CEILINGS (if quoted)

15. **Ceiling Panels:** Fabricated from same mesh, framing and reinforcement bars as panels above.
16. **Perimeter Angle:** 1-1/2" x 1-1/2" x 14-gauge galvanized angle; punched to connect panels to wire mesh partition or existing building walls. Sent in 10' sections with erector responsible for cutting down to length as required.
17. **Intermediate Beam Support:** 2" x 4" x 14-gauge rectangular tube for use in spans exceeding 10' in any two directions. Includes two 1-1/2" angle clips to connect to wire mesh partition walls.
18. **Intermediate Beam Support Post:** 2" x 2" x 14-gauge square tube with a 4" x 7-1/2" x 3/16" base plate (*will accept 3/8" diameter anchors*); a 4" x 7-1/2" plate at top for support of Intermediate Beam Supports at walls or at seams between two Intermediate Beam Supports. Support post should not be connected permanently to beams.