Formed “turned-in-toe” channel uprights prevent telescoping, assure permanent alignment.

Capping channel “U” bolted to panels simplifies installation and rearrangement.

Woven-in center channel provides better appearance, additional rigidity.

Adjustable floor sockets permit level installation, secure anchorage.

**construction**

Since 1913, ACORN Wire and Iron Works™ has been the national leader in wire mesh partition innovation and quality. This is a tradition that continues today in the design engineering of high performance products.

The Woven Wire Products Association standards were developed from ACORN’s original partition specifications. ACORN recognizes that these standards currently define only the minimum acceptable level of product manufacture. ACORN continues to develop proprietary components and manufacturing methods that improve product reliability.

**QUALITY** of design and manufacture creates ACORN’s reliability. ACORN uses no standard die-cast components. All partition hardware is aluminum alloy, hand-poured in molds of ACORN’s own design, providing thicker, cleaner parts engineered to specific performance requirements. This speeds production while creating a stronger, truer partition. The ACORN hand-cast lock mechanism is engineered and tested to withstand sledgehammer assault.

ACORN’s unique, self-supporting ceiling construction was developed by an independent consulting engineering firm. Ceiling framing consists of a standardized system of specially designed and fabricated crimped beams that can satisfy most span and loading conditions. Ceiling hanger systems or custom framing engineering are not required when you select a safe, secure ACORN self-supporting enclosure. Compare the details; whether heavier roll-formed sections or proper mesh size, you will discover the quality that has established ACORN’s reputation for reliable security performance.

**SECURITY** is the owner’s expectation and motivation. Minimum standards and lowest cost become meaningless if the wire mesh enclosure fails to secure its contents.

**WARRANTY**

We guarantee our products against defective material and/or workmanship for a period of one year.

**about acorn**

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Slide-up service windows for use in any location. Standard size 24" wide x 15" high, special sizes to order. Windows lock in opened and closed positions with spring caches. Shelf is 12-gauge steel, 12" deep x 25" wide (optional).

Door locks are pick-proof mortise type operated by key outside, recessed knob inside. Can be keyed alike, different or master-keyed. Cylinder locks are standard equipment on all doors unless otherwise specified.

**SIMPLICITY** of installation saves time and money. ACORN quality and attention to detail assures that each wire mesh partition and its components will fit properly and install easily.

**SERVICE** is important to achieving architect and owner satisfaction. ACORN will provide a solution, whether a standard-duty security partition or a custom designed high performance enclosure is required. Every project is carefully engineered to provide optimum performance on a cost-effective basis. Complete fabrication drawings are provided for review as required.

**wire mesh partitions**

ACORN partitions are made of a series of standardized units. Panels, doors, service windows and corners can be arranged in any combination, giving maximum flexibility in layout. Standardized units permit expansion at any time with no loss of component parts.

**advantages**

- **strength**
- **security**
- **simplicity**

**Selection Guide**

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**how to order**

Wire mesh ceilings available for additional security, and include guide specifications, if needed.
typical grouping of no. 130A sections
components - nominal sizes

standard panels:
Stock sizes—5’ wide, 7’, 8’, 9’, 10’ and 12’ high. Special heights up to 12’ made to order.

sliding door sections:
Stock sizes—3’, 4’, 5’, 6’, 8’, and 10’ wide. 7’9” headroom except 6’9” in 7’ high partitions. Special sizes made to order.

service window panels:
Stock sizes—24” x 15” standard service window (see page 3) in standard 5’ wide panels. Special windows and panels made to order.

hinged door sections:
Stock sizes—3’, 3’6”, and 4’ wide. 7’ headroom. Special sizes made to order.

filler panels:
Special width panel to secure runs where standard 5’ wide panel cannot be used.

corners and intersections:
Stock sizes—1¼” angle for 90˚ corner, any height. Clips for three- or four-way 90˚ intersection, any height. 1 1/8” O.D. pipe post for other than 90˚ corner.
All panels and door sections are interchangeable, standardized units which can be arranged in any desired combination.
Special sizes and configurations made to order.

7’—12’ wire mesh partitions

all wire type—no. 130A
Basic all wire type for normal industrial use. 7’, 8’, 9’, 10’ and 12’ standard heights.

TS/Technical Support
specifications
Partitions shall be no. 130A as manufactured by ACORN Wire and Iron Works™
- All wire type constructed of 10 gauge steel wire woven into 1/8” diamond mesh, securely clinched to frames
- Vertical frames to be 1 1/2” x 1/2” cold-rolled ‘C’ section channels with 1/4” bolt holes 12” o.c.
- Horizontal frames 1” x 1/2” cold-rolled channels
- All joints mortised and tenoned
- Center reinforcing bar 1” x 1/2” cold-rolled channel tenoned to side frames. All wires passed through center bar
- Woven in stiffener bars; 1 unit required for 7’ and 8’ high partitions; 2 units required for 9’ and 10’ high partitions; 3 required for 12’ high partition
- Top capping bar 2 1/4” x 1” cold-rolled channel with 1/2” ‘U’ bolts, 2’4” o.c. May be anchored to walls and/or ceilings
- Corner posts 1 1/4” x 1 1/4” angles with 1/2” bolt holes to match partition
- Floor sockets (aluminum) 2” high with set screw adjustment
- Sliding door frames 1 1/2” x 1 1/2” channel with 1 1/2” x 1 1/8” flat bar cover all around. Each door to have two 4-wheel roller bearing hangers, box track, and bottom guide channel
- Hinged door frames 1 1/2” x 1 1/2” channel with 1 1/4” x 1/2” flat bar cover three sides, 1/2” x 1/2” x 1/2” angle riveted to lock side. Each door to have 1 1/8” pairs butt hinges riveted to both door and hinge bar
- All doors shall have substantial mortise type cylinder locks operated by key outside, recessed knob inside
- All bolts, hardware, and accessories for complete installation to be included
- Field bracing furnished by erector
- Finish, powder coated in gray, black or other standard colors. Special orders can include galvanized, galvanized and painted, color matched and metallic colors

Specifications are subject to change. Please consult your ACORN sales rep or visit www.acornwire.com for more details.
typical grouping of no. 139A sections
components—nominal sizes

standard panels:
Stock sizes—5' wide, 7', 8', 9', 10' and 12' high. Special heights up to 12' made to order.

sliding door sections:
Stock sizes—3', 4', 5', 6', 8', and 10' wide. 7'9" headroom except 6'9" in 7' high partitions. Special sizes made to order.

service window panels:
Stock sizes—24" x 15" standard service window (see page 3) in standard 5' wide panels. Special windows and panels made to order.

hinged door sections:
Stock sizes—3', 3'6", and 4' wide. 7' headroom. Special sizes made to order.

filler panels:
Special width panel to secure runs where standard 5' wide panel cannot be used.
Stock sizes—1', 1'6", 2', 2'6", 3', 3'6", 4', and 4'6" in 7', 8', 9', 10', and 12' heights. Special sizes made to order.

corners and intersections:
Stock sizes—1¼ " angle for 90° corner, any height. Clips for three- or four-way 90° intersection, any height. 1 ⅝" O.D. pipe post for other than 90° corner.
All panels and door sections are interchangeable, standardized units which can be arranged in any desired combination.
Special sizes and configurations made to order.
typical grouping of no. 130AL sections
components—nominal sizes

standard panels:
Standard sizes 5’ wide, 12’—23’8” high.

sliding door sections:
Stock sizes—3’, 4’, 5’, 6’, 8’, and 10’ wide. 7’7” headroom.
Special sizes made to order.

service window panels:
Stock sizes—24” x 15” standard service window (see page 3) in standard 5’ wide panels. Special windows and panels made to order.

hinged door sections:
Stock sizes—3’, 3’6”, and 4’ wide. 7’ headroom. Special sizes made to order.

filler panels:
Special width panel to secure runs where standard 5’ wide panel cannot be used.
Stock sizes—1”, 1’6”, 2’, 2’6”, 3’, 3’6”, 4’, and 4’6” widths in 12’, 13’8”, 14’8”, 15’8”, 16’8”, 17’8”, 18’8”, 19’8”, 20’8”, 21’8”, 22’8” and 23’8” heights. Special sizes made to order.

corners and intersections:
Stock sizes—1¼” angle for 90° corner, any height. Clips for three- or four-way 90° intersection, any height. 1 ⅛” O.D. pipe post for other than 90° corner.

flat bar posts:
Stock sizes—

= ½” x 1½” for partitions 12’—14’8” high
= ⅛” x 2½” for partitions 14’8”—19’8” high
= ⅛” x 3” for partitions 19’8”—23’8” high

All panels and door sections are interchangeable, standardized units which can be arranged in any desired combination.
Special sizes and configurations made to order.

all wire type—no. 130AL
Basic type for normal industrial use.

sheet base type—no. 139AL
Special type for normal industrial use.

TS/Technical Support

specifications no. 130AL

Partitions shall be no. 130AL as manufactured by ACORN Wire and Iron Works™

• All wire type constructed of 10 gauge steel wire woven into 1/8” diamond mesh, securely clinched to frames
• Vertical frames to be 1/4” x ⅛” cold-rolled ‘C’ section channels with ¼” bolt holes 12” o.c.
• Horizontal frames 1” x ⅛” cold-rolled channels
• All joints mortised and tenoned
• Center reinforcing bar 1” x ⅛” cold-rolled channel tenoned to side frames. All wires passed through center bar
• Flat bar posts to be (⅛” x 1⅜”) (⅛” x 2⅞”) (⅛” x 3”) (as detailed) with ¼” bolt holes to match partition
• Top capping bar 2⅛” x 1” cold-rolled channel with ⅛” “U” bolts 2 4” o.c. May be anchored to walls and or ceilings
• Corner posts 1½” x 1½” angles with ½” bolt holes to match partition
• Floor sockets (aluminum) 2¼” high with set screw adjustment
• Sliding door frames 1½” x ⅛” channel with 1½” x ⅛” flat bar cover all around. Each door to have two 4-wheel roller bearing hangers, box track, and bottom guide channel
• Hinged door frames 1½” x ⅛” channel with 1½” x ⅛” flat bar cover three sides, 1 ⅛” x ⅛” x ⅛” angle riveted to lock side. Each door to have 1½” pairs butt hinges riveted to both door and hinge bar
• All doors shall have substantial mortise type cylinder locks operated by key outside, recessed knob inside
• All bolts, hardware, and accessories for complete installation to be included
• Field bracing furnished by erector
• Finish, powder coated in gray, black or other standard colors. Special orders can include galvanized, galvanized and painted, color matched and metallic colors

specifications no. 139AL

Partitions shall be no. 139AL as manufactured by ACORN Wire and Iron Works™

• Sheet base type
• Lower panel 16-gauge formed steel sheet
• Top panel constructed of 10-gauge steel wire woven into 1/8” diamond mesh securely clinched to frames.
(Balance of specifications same as 130 AL)

Specifications are subject to change. Please consult your ACORN sales rep or visit www.acornwire.com for more details.

ACORN Wire and Iron Works™
www.acornwire.com
typical grouping of no. 135 sections
components—nominal sizes

standard panels:
Standard sizes—5' wide, 7'-20' heights in 12" increments.
Special sizes made to order.

sliding door sections:
Standard sizes—3', 4', 5' and 6' wide. 7' headroom except 6'6" in 7' high partition. Special sizes made to order.

service window panels:
Standard sizes—24" x 15" standard service window (see page 3) in standard 5' wide panels. Special windows and panels made to order.

hinged door sections:
Standard sizes—3', 3'6", and 4' wide. 7' headroom except 6'10" in 7' high partition. Special sizes made to order.

filler panels:
Standard sizes—none. Special width panel to secure runs where standard 5' wide panel cannot be used.

corners and intersections:
Stock sizes—1¾ " angle for 90° corner, any height. Clips for three- or four-way 90° intersection, any height. 2 1/4" O.D. pipe post for other than 90° corner.

flat bar posts:
Stock sizes—1/16" x 2 1/2" for partitions 2'-12' high
1/16" x 3" for partitions 12'-16' high
1/16" x 3 1/2" for partitions 16'-20' high

All panels and door sections are interchangeable, standardized units which can be arranged in any desired combination. Special sizes and configurations made to order.

7’—20’ wire mesh partitions

all wire type—no. 135
Heavy-duty all wire type for extra heavy industrial use.
7’-24’ heights in 12” increments.

TS/Technical Support
specifications

Partitions shall be no. 135 as manufactured by ACORN Wire and Iron Works

• All wire heavy-duty type constructed of 6-gauge steel wire woven into 2" diamond mesh securely clinched into 1 1/2" x 3/4" channel frames
• Vertical frames to have 3/8" bolt holes 18" o.c.
• All joints mortised and tenoned
• Center reinforcing bar 1 1/2" x 1/2" channel tenoned to side frames
• All wires passed through center bar
• Flat bar posts to be (1/16" x 2 1/2") (1/16" x 3") (1/16" x 3 1/2") (as detailed) with 3/8" bolt holes to match partition
• Top capping bar 3" x 4.1 lb. channel with 1/16" "U" bolts 2’4” o.c. May be anchored to walls and or ceilings
• Corner posts 1 1/2" x 1 1/2" angles with 1/8" bolt holes to match partition
• Floor sockets 2 1/2" high with set screw adjustment
• Sliding door frames 1 1/2" x 1/2" channel with 1 1/8" x 1/8" flat bar cover all around. Each door to have two 4-wheel roller bearing hangers, box track, and bottom guide channel
• Hinged door frames 1 1/2" x 1/2" channel with 1 1/8" x 1/8" flat bar cover three sides, 1 5/8" x 7/8" x 1/8" angle riveted to lock side. Each door to have 1 1/2 pairs butt hinges riveted to both door and hinge bar
• All doors shall have substantial mortise type cylinder locks operated by key outside, recessed knob inside
• All bolts, hardware, and accessories for complete installation to be included
• Field bracing furnished by erector
• Finish, powder coated in gray, black or other standard colors. Special orders can include galvanized, galvanized and painted, color matched and metallic colors

Specifications are subject to change. Please consult your ACORN sales rep or visit www.acornwire.com for more details.

ACORN Wire and Iron Works™
www.acornwire.com
how to order

When the partition layout is planned around standardized units, send a rough sketch and/or list the following information:

1. Type of partition
   (130A, 139A, 130AL, 139AL, 135)
2. Height of partition.
3. Number of standard panels.
4. Number and width of filler panels.
5. Number and width of adjustable panels.
6. Number, width and type or door section.
7. Number and type of corner posts.
8. Number and type of floor braces. If omitted, we assume supplied by others, or none required.
9. Flooring and wall types.
10. Color of paint (gray, green or black)

example

folding gates

ACORN Wire and Iron Works™ is a nationally recognized leader in the manufacture of folding gates for security, loss prevention and traffic control requirements. Offered in both single- and double-gate configurations, these units feature folding top and folding bottom tracks, that when expanded create a sturdy blockade from unwanted access. ACORN folding gates are available for the following applications.

ACORN’s Bostwick Series 5743, 5761 and 5762 Fixed Security Folding Gates for school applications can control corridor traffic for regular school activities, or during after-school sporting events. Offered in both single- and double-gate configurations, fixed gates offer deep or shallow cabinet storage for new building, or surface-mounted for both new and retrofit applications.

ACORN subway security folding gates can be installed anywhere within the station’s corridors. These heavy-duty gates can be used to bar passengers from entering prohibited areas.

All moving parts on ACORN Security Folding gates are fitted with rollers for smooth opening and stacking when not in use. Units lock in both open and closed positions to prevent damage or injury.