



CEILING SYSTEMS

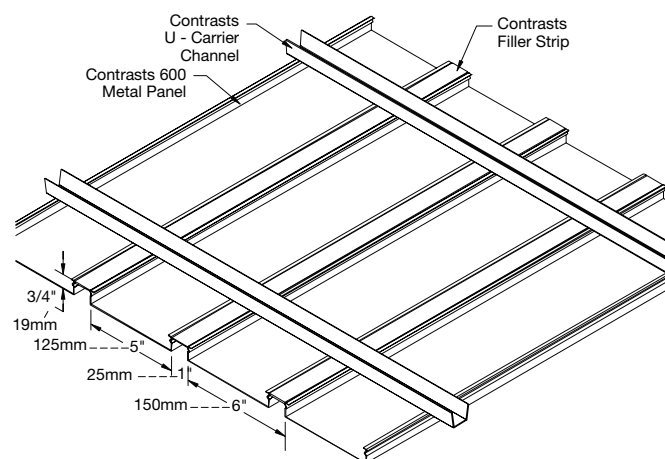
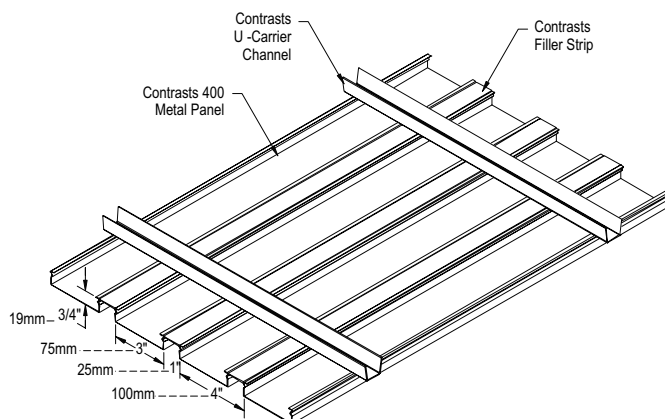
[Between us, ideas become reality.™]

METALWORKS Linear Contrasts Ceilings – Installation Instructions

1. GENERAL

1.1 Product Description

Metalworks Contrasts is a linear metal ceiling with panels that are made from .022" aluminum in either 3" or 5" widths along with a 1" PVC filler strip that fits between panels. The metal panels snap into Contrasts "U" Carrier Channels. The carrier channel is hung with 12 gauge hanger wire through a linear suspension clip. Carriers are hung on 4 foot centers.



1.2 Storage and Handling

The ceiling panels shall be stored in a dry interior location and shall remain in cartons prior to installation to avoid damage. The cartons shall be stored in accordance with the instructions on the carton. Proper care should be taken when handling to avoid damage or soiling.

1.3 Site Conditions

Building areas to receive ceilings shall be free of construction dust and debris.

1.4 Ceiling Panel Layout.

The ceiling panel layout should have perimeter panels equal in width on opposite ends. These cut perimeter panels should be more than 50% of their original width. This will create the best visual.

2. PREPARATION

- 2.1 Determine desired height of new ceiling.
- 2.2 Strike a level line around the perimeter of the area at this height.
- 2.3 Determine direction of linear ceiling.
- 2.4 The carriers will be installed on 4 foot centers perpendicular to this direction.

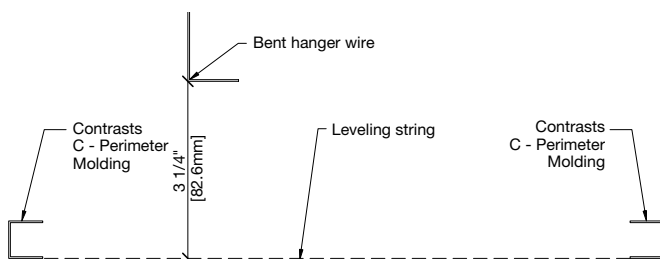
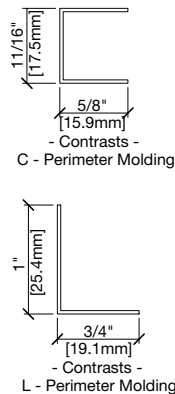
3. INSTALLATION

3.1 Install Contrasts "C" Perimeter Molding on two walls. These walls will be perpendicular to the direction of the linear ceiling.

3.2 Install Contrasts "L" Perimeter Molding on the other two walls. These walls will be parallel to the linear ceiling.

3.3 Secure hanger wires to the structure above. Wire spacing should be every four feet on center in both directions. The first wire should be within two feet of one corner of the area. The last row of hangers should be within 2 feet of the other side of the area.

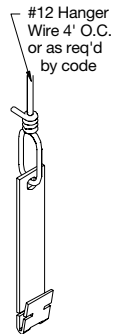
3.4 Stretch a string from the bottom of the "C" Perimeter Molding from one side to the other along a row of hanger wires. Bend the wires $3\frac{1}{4}"$ (82.6mm) above the string.



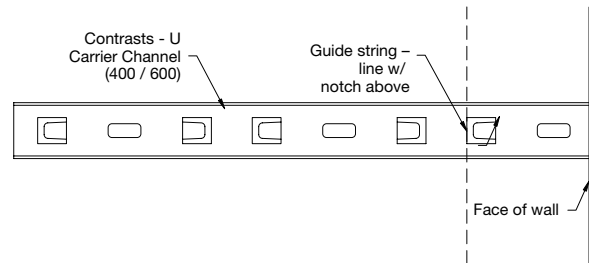
3.5 Hang a Linear Suspension Clip from each wire and secure with three wraps.

3.6 Stretch a string from one side of the room to the other just above the "C" molding (string perpendicular to "U" carrier). The string should be out from the "end" wall the calculated width of the first panel.

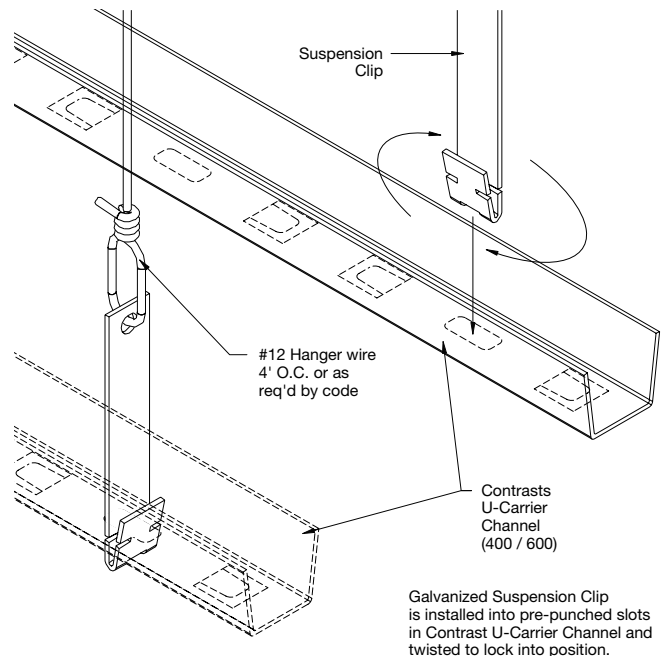
3.7 Measure from this string to the wall. Cut the first "U" carrier in each row so the indicated notch is the measured distance from the end wall and lines up with this string.



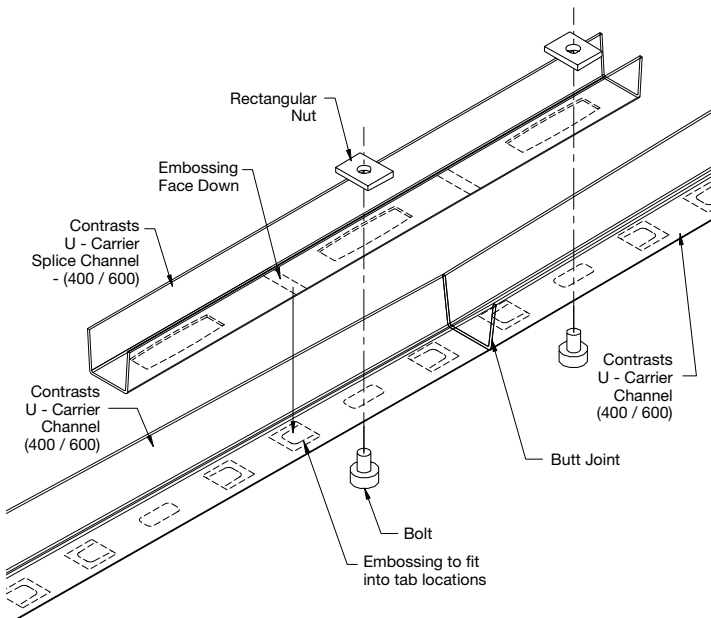
BOTTOM VIEW



3.8 Fasten the "U" carriers to the Linear Suspension Clips as indicated.



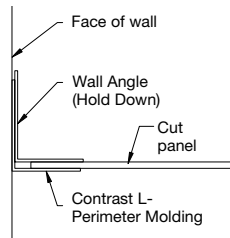
- 3.9** Join ends of "U" carriers with the "U" carrier channel splice and run each row to the other end of the room.



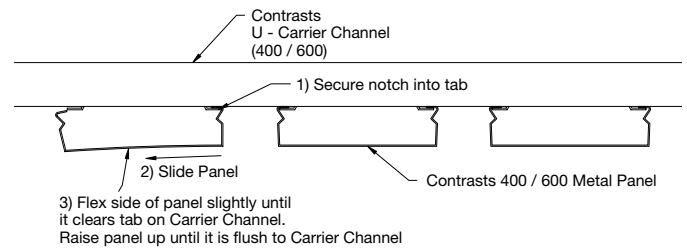
- 3.10** Measure from the string to the wall several places to determine the exact width of the first row of panels. When the panel has been marked, use an electric shears to cut the panel to width.

- 3.11** Lay the cut edge of the panel into the "L" molding and secure the following edge (factory edge) of the panel in the "tab" in the carrier.

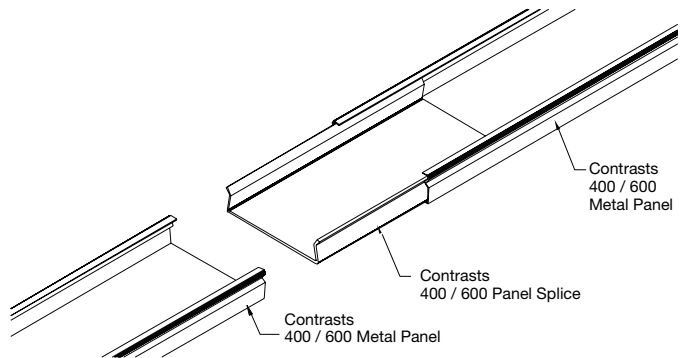
- 3.12** Install a second "L" molding on top of the cut edges of the panels in the first row. This will hold the long cut edges of the panels down tight against the original "L" molding.



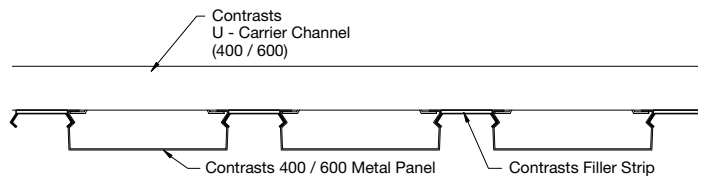
- 3.13** Install the second row of panels by catching one edge on the appropriate tabs on the "U" carrier and pulling the other edge to catch on tabs at the other side of the panel.



- 3.14** Slide panel splices into the ends of the full width panels where they butt.



- 3.15** Snap Contrasts filler strips between panels so they engage the grooves on the sides of the panels. The "open" side of the filler strips should be facing the floor.



- 3.16** The short cut ends of the panels fit inside the "C" Perimeter Molding at the two sides.

4. EXTERIOR INSTALLATION

4.1 Criteria

- Basic wind speed 90 mph
- Building height 60' or less
- Exposure B
- For areas exceeding the above criteria contact Architectural Specialties
- It is recommended that ceiling panels be run in the short direction on all canopies
- Minimum of 1" drip edge must be provided on the fascias.
- C-profile edge trim must be used for all perimeter details (field fabricated hold down clips required for cut panels)
- Contrasts 400/600 – Non-perforated panels only
- Carrier channels, hangers, and other accessories shall be galvanized or with rust inhibitive coating.

4.2 Panel carrier channels shall be double wire tied to 1-1/2" carrying channel (black iron) spaced 24 inches O.C.

4.3 To provide bracing against wind uplift and/or suction, the supports for the carrying channel shall be either sub framing or compression posts 4 feet O.C. and supported to the main structure.

4.4 The first and last carrying channels (black iron) shall be no more than 6 inches from perimeter walls.

4.5 Splice carrying channels (black iron) by overlapping 12 inches and double wire tying. (Do not weld or fasten splices in any other way)

4.6 The ends of panel carrier channels and carrying channels (black iron) shall be securely fastened to the interior face of the surrounding walls.

4.7 If compression posts are used, splay wires in 4 directions at selected compression post locations shall be used to laterally stabilize the system.

4.8 Panel carrier channels shall be spaced no more than 24 inches O. C.

4.9 Use panel carrier splices at all panel carrier butt joints. Do not weld or fasten in any other manner.

4.10 For Contrasts 400/600 panel butt joints, use the panel splice inserted into the back of the panels.

4.11 Locate panel carrier a maximum of 4 inches to either side of butt joint and parallel to butt joints.

4.12 Light fixtures and other accessories shall be independently supported from the structure above.

4.13 When installing ceiling panels, lock each panel in place by inserting a black PVC filler strip between panels. Filler strips are required to prevent possible dislodgement on panels.

4.14 Panels shall be installed with ends and edges fit snugly into perimeter edge trims.

5. SEISMIC INSTALLATION

Install to meet sections 1,2 and 3 as tested.

These drawings show typical conditions in which the Armstrong product depicted is installed. They are not a substitute for an architect's or engineer's plan and do not reflect the unique requirements of local building codes, laws, statutes, ordinances, rule and regulations (Legal Requirements) that may be applicable for a particular installation.

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