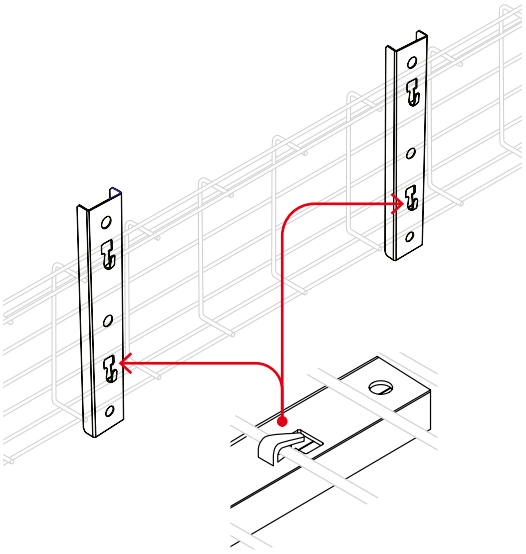
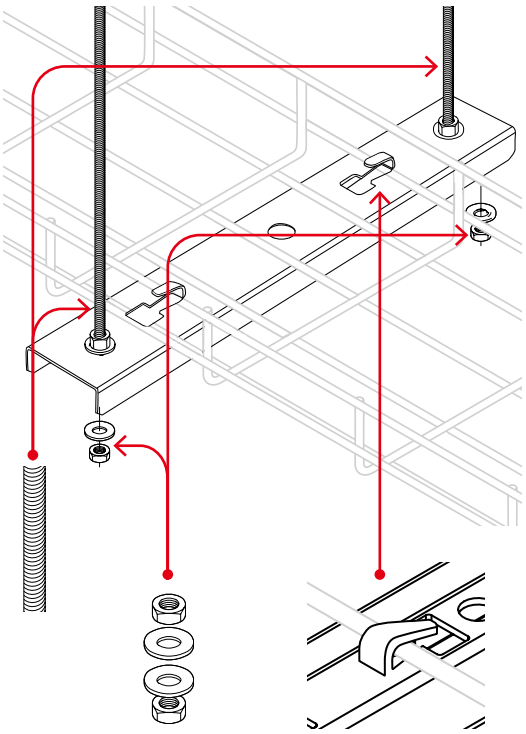
Support methods



1 – TabLok profile
TabLok profile is the fastest way to mount tray on walls, floors, racks and cabinets.

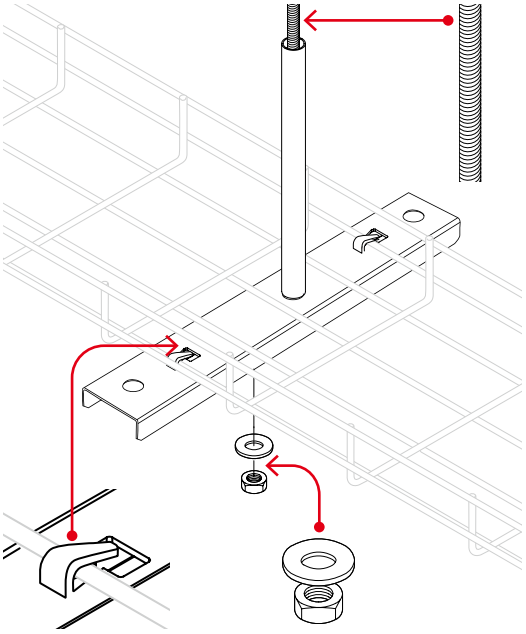
Attach the bracket to the mounting surface, position tray over bracket and slide tray under tabs. Lock tabs down using a screwdriver. The tray is locked into place – no additional hardware required.



2 – TabLok trapeze
Use TabLok profile to create trapeze-hung installations. For trapeze configurations, specify TabLok profile 4 in. wider than width of tray to be hung. Attach a ⅜ in. diameter threaded rod (page C28) to either side of the profile using two nuts and washers (page C34).

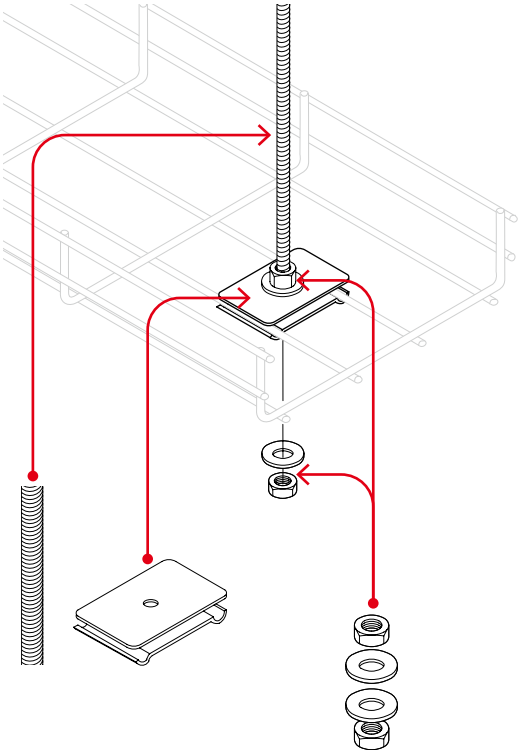
Lock tray length into position as described above.

Support methods



3 – TabLok center-hung
Center-hung configurations are quick and easy when you use the pre-assembled TabLok center-hung assembly. Lock tray into position on the TabLok profile and secure a single ⅜ in. diameter threaded rod (page C28) to the TabLok center-hung assembly using a nut and washer (page C34).

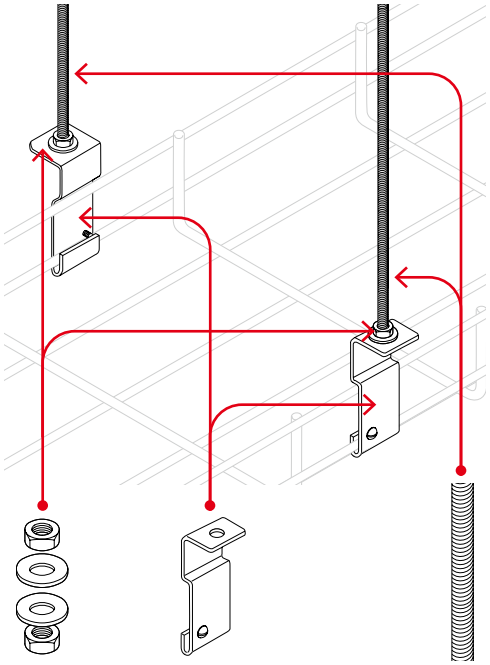
Note: 6 in. center-hung assembly has offset suspension tube to avoid center wire.



4 – Center-hung clamp
For light-duty applications using 4 in., 8 in. or 12 in. U-profile ExpressTray, a ceiling-mounted support made up of a single ⅜ in. diameter threaded rod (see page C28) and a threaded rod clamp (see page C28) can be used. The clamp attaches to tray mid-wires as illustrated.
A nut and washer (see page C34) are secured on either side of the threaded rod attachment. Order nut and washer separately.

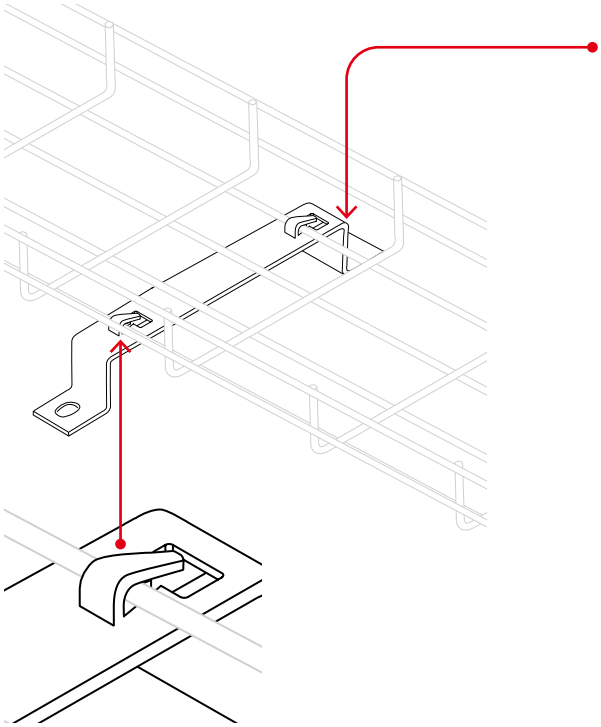
Because the load must be evenly distributed on either side of the clamp, this attachment method can be used only with tray that has a central pair of wires. For this reason, this clamp cannot be used with C-profile ExpressTray.

Support methods



5 – Side hanger
Another method of ceiling-mounted support, side hangers (see page C27) are an alternative for tray that cannot be supported using the center-hung clamp. ¼ in. threaded rod (see page C28) is threaded into side hangers, the tray is hooked onto the hangers and pivoted into position. Tray is held securely in position by means of a set screw, which prevents the wire from jumping out of the side hanger.

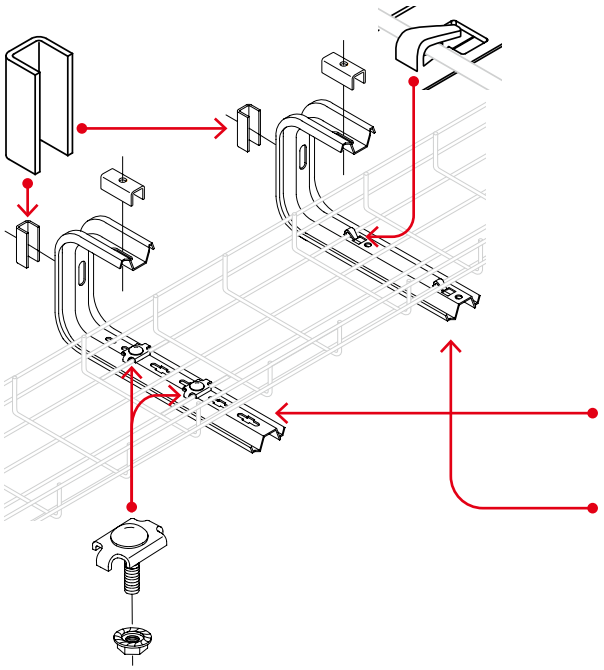
Use a nut and washer (see page C34) on the top and bottom of each threaded rod attachment.



6 – Stand-off brackets
Use stand-off brackets for floor- or wall-mounted applications that require the tray to be raised off the mounting surface.

The stand-off bracket (page C19) attaches to the ExpressTray bottom as shown using lock down tabs. No other hardware is required.

Support methods

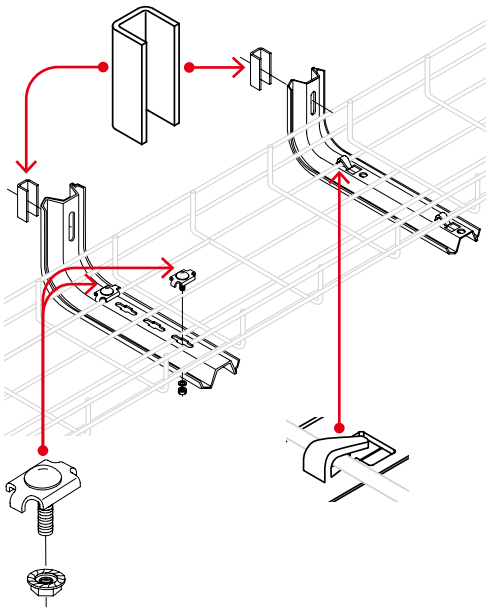


7 – “J” brackets
Two types of “J” brackets are available – standard “J” brackets (page C20) and TabLok profile “J” brackets (page C19).

“J”-brackets are used for sections of cabling runs that run parallel and close to the ceiling and/or wall. The “J”-bracket mounts to the ceiling and/or wall using standard hardware (not supplied) and a spacer (see page C36) to prevent distortion of the bracket profile.

The standard bracket clamp (see page C35) is then used to attach the tray to the bracket.

For TabLok “J” brackets, no additional hardware is required. Simply lock tray into position using fold-down tabs.

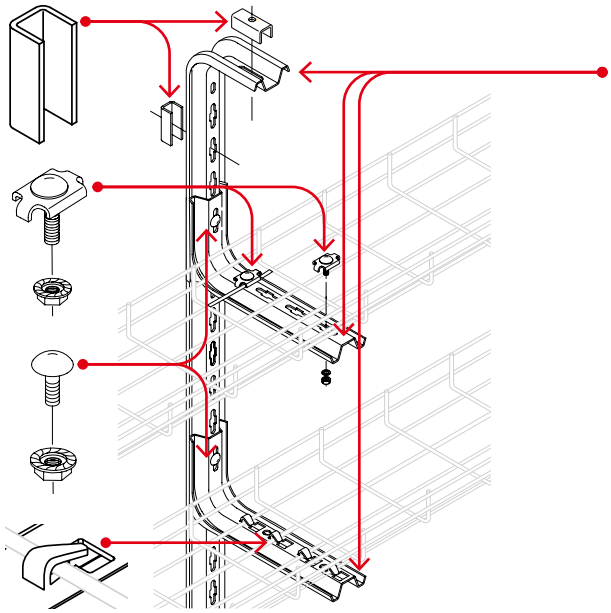


8 – Wall-mounted “L” brackets
Two types of “L” brackets are available for wall-mounted supports: the standard “L” bracket and the TabLok “L” bracket.

Both brackets can be attached directly to the wall surface or to metal framing channel (see page C28). Use spacers (see page C36) to prevent distortion of bracket profile.

The tray is then attached to the bracket using either a bracket clamp (see page C35) in the case of the “L” bracket or integrated bend-down tabs for the TabLok bracket.

Support methods

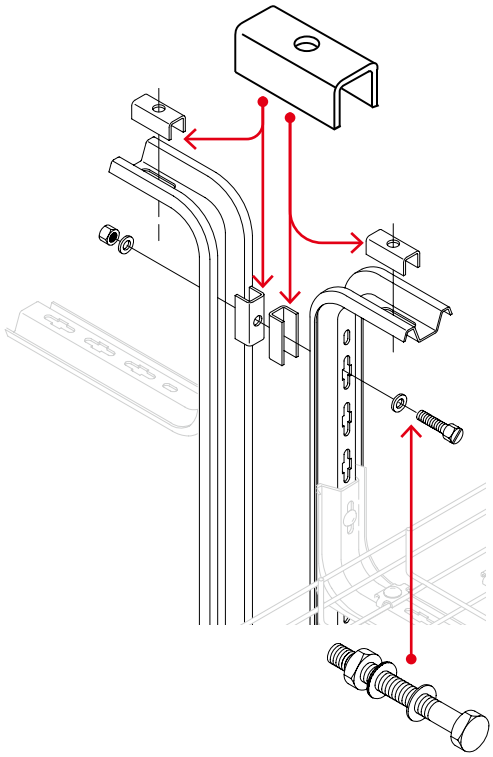


9 – Tiered “L” brackets
Use brackets to create multi-level installations for applications that require separation of different types of cables.

To create this configuration, use standard “L” brackets (see pageC21) or a combination of “L” and TabLok “L” brackets (see page C20). Brackets are attached together using the nested “J” or “L” bolting kit (see page C36).

Depending on the bracket, the tray can be attached using bracket clamps (standard “L” bracket) shown on page C35 or bend-down tabs.

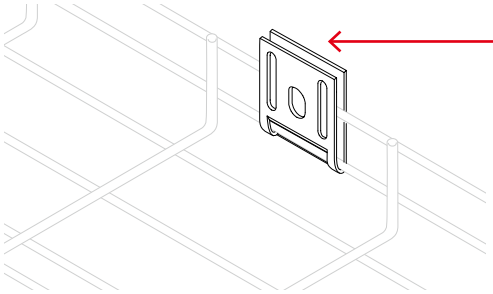
Use spacers (see page C36) to prevent distortion of the bracket profile during tightening.



10 – Back-to-back brackets
Brackets can be used in a variety of configurations for both wall and ceiling mounting. Attach the bracket profiles together using the back-to-back bracket bolting kit and spacers (see page C36) to prevent distortion of the bracket profile during tightening.

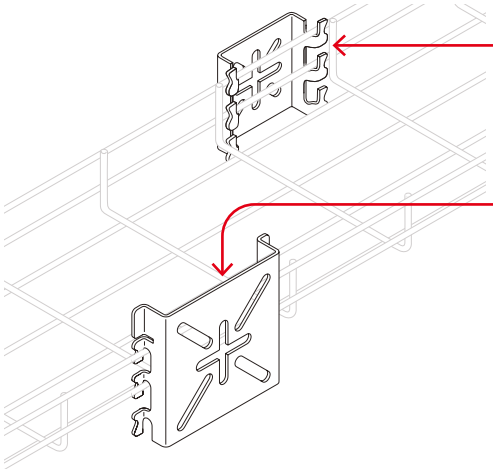
The number of spacers required will vary according to the length of the brackets used.

Support methods



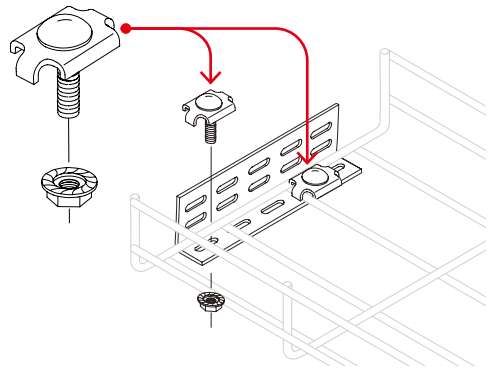
11 – Wall clamp attachment
Use wall clamps (see page C27) to attach the side rail of ExpressTray U- and C-profiles directly to the wall surface. Use standard ⅜ in. hardware to attach (not included).

Note: Not to be used on tray wider than 8 in.



12 – Mounting bases
Use these versatile mounting bases (page C24) as a wall-mount or under-floor attachment. Secure the base to the tray side rails or bottom using fold-over tabs.

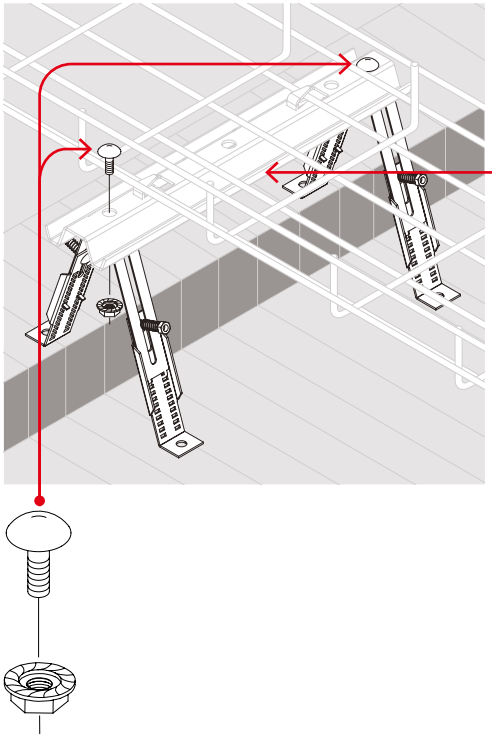
The mounting base can also be used as a support for electrical outlet boxes.



13 – Wall termination
Wall termination angles or universal blind ends (page C25) can be used as wall and floor-to-ceiling supports or to safely terminate runs of ExpressTray.

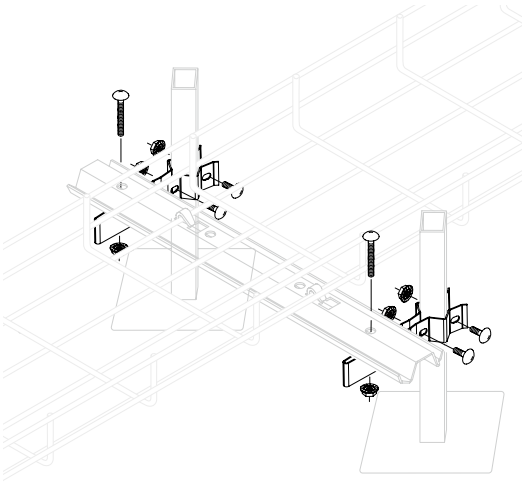
The termination angle attaches to the tray using a bracket clamp (page C35).

Support methods



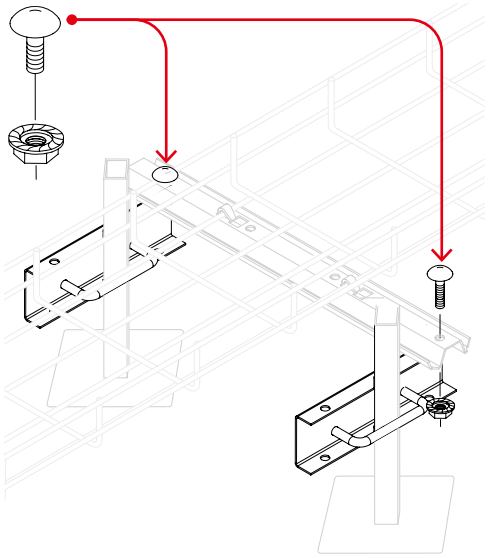
14 – Adjustable A-frame bracket
Use the adjustable A-frame bracket (page C21) with TabLok profile (page C18) to create a level support stand or wall bracket on uneven surfaces.

To install, attach TabLok profile to the A-frame bracket using the supplied nut and bolt. Adjust A-frame legs to level, tighten downspring-loaded adjustment bolt and attach to support surface.



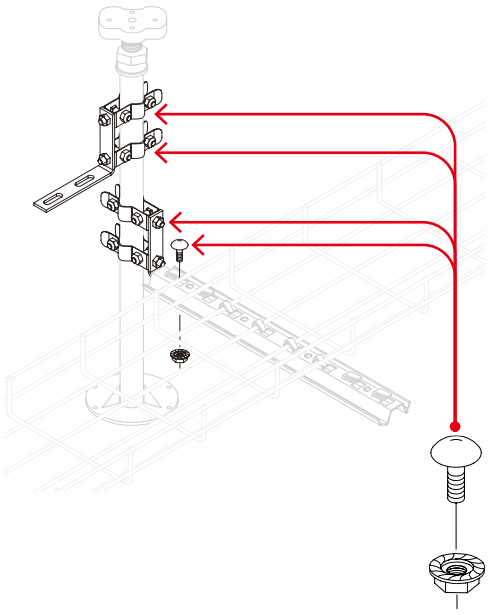
15 – Under-floor support clamp
Attach clamp to two floor posts using supplied hardware. Position TabLok profile (page C18) across the support clamps and secure the profile to the clamp by inserting the supplied bolt through the TabLok profile and securing with a nut.

Support methods



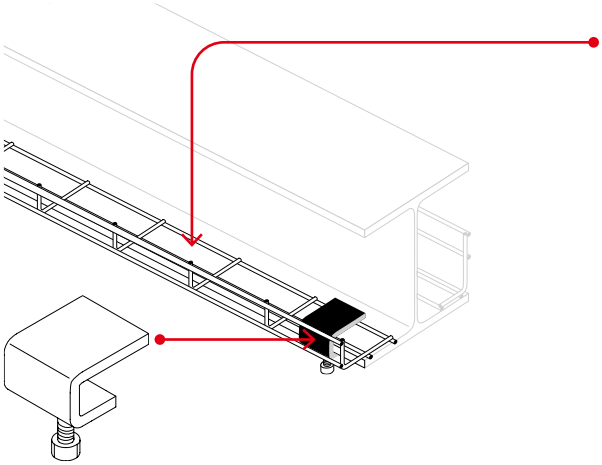
16 – Under-floor U-bolt support
Another method of creating support platforms for sub-floor runs of ExpressTray is the U-bolt support (page C22).

To install, separate U-bolt from bracket, encircle under-floor support post, reinsert bracket and tighten down nuts. Position TabLok profile across supports and secure the profile to the support using the supplied bolt and nut.



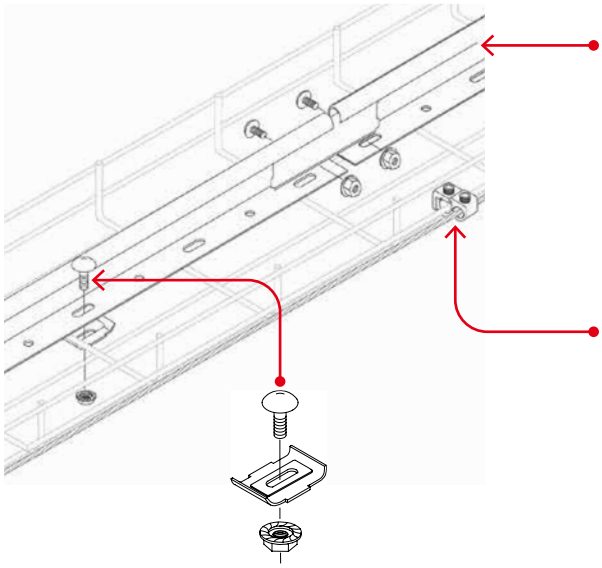
17 – Under-floor brackets
Use these under-floor brackets (page C22) to create supports for tiered runs of ExpressTray. Simply install brackets to round or square posts using supplied hardware. Attach TabLok profile extremity to bracket tab using a nut and bolt.

Support methods



18 – Beam clamp
The beam clamp (see page C34) is used to attach L-profile ExpressTray to steel beams and girders.

This attachment method takes advantage of existing structures and is quick and economical to install. Simply attach the L-profile tray using the beam clamp, and the enclosed space created between the beam and the ExpressTray can then be used to route cables. No other hardware is required.



19 – Barrier strip and grounding connector
For separating bundles of power, voice and data cables, barrier strips (see page C29) can be attached along the length of the tray bottom.

Attach the barrier strip using the barrier strip clamp (see page C30). Attach lengths of barrier strips together using the barrier strip connector (see page C29).

ABB strongly recommends the use of a properly sized, continuous ground wire attached to each ExpressTray length in accordance with all applicable codes. See page C32 for grounding connector details.

Note: To ensure electrical continuity, the grounding connector and ground wire MUST be used in all Quiklok series tray applications.