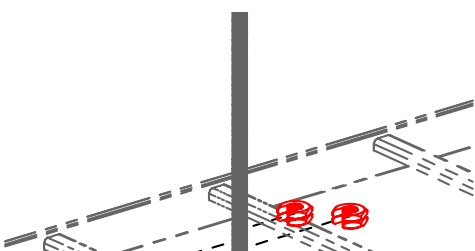
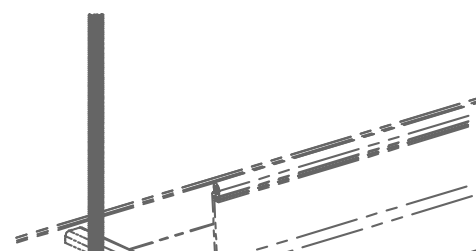
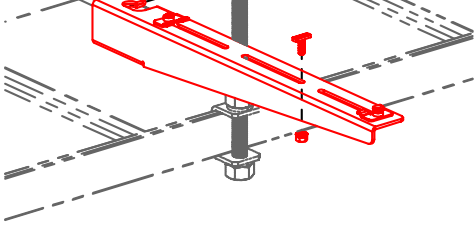
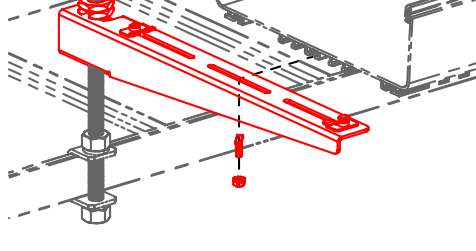
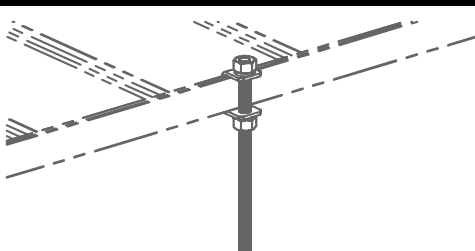
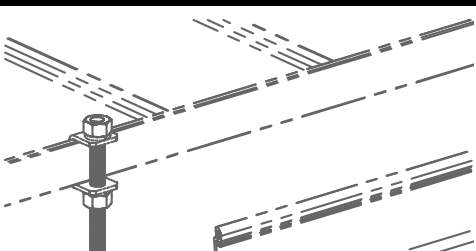
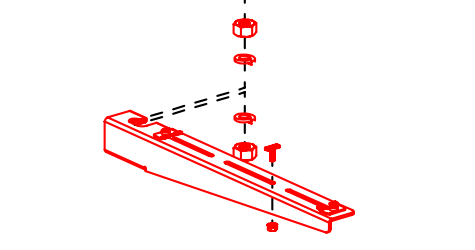
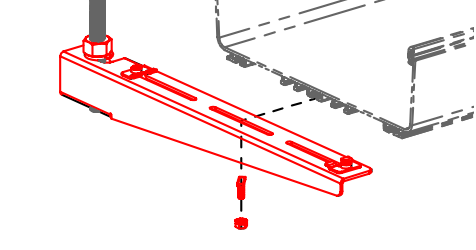


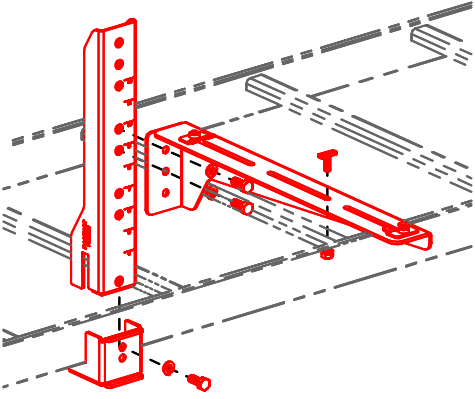
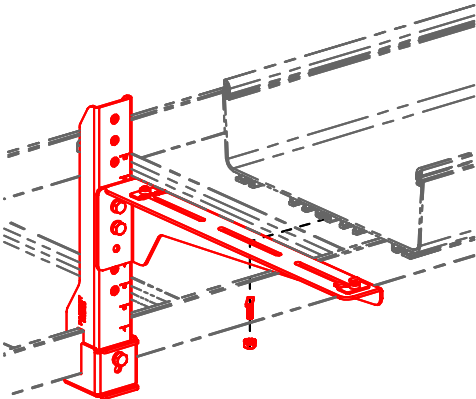
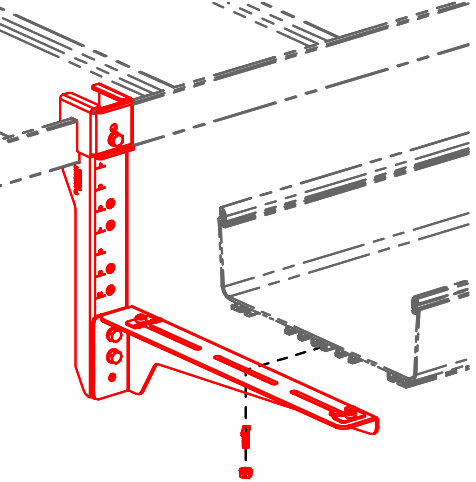
PANDUIT CORP[®]

FIBERRUNNER[®] SYSTEM & FIBER-DUCT[™] SYSTEM BRACKET GUIDE

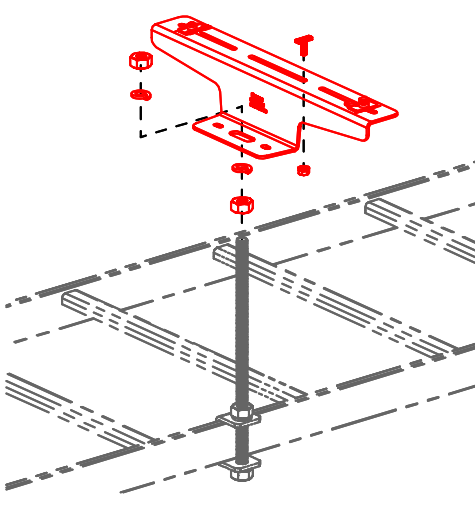
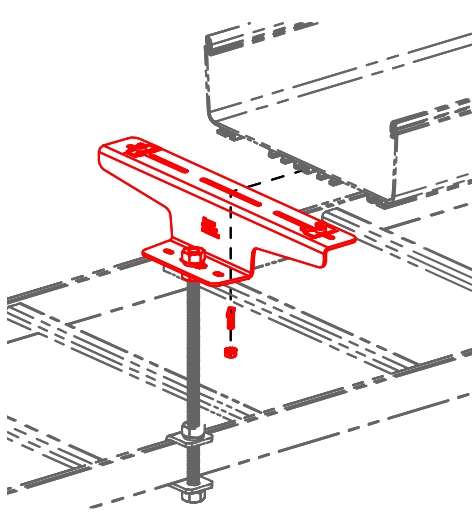
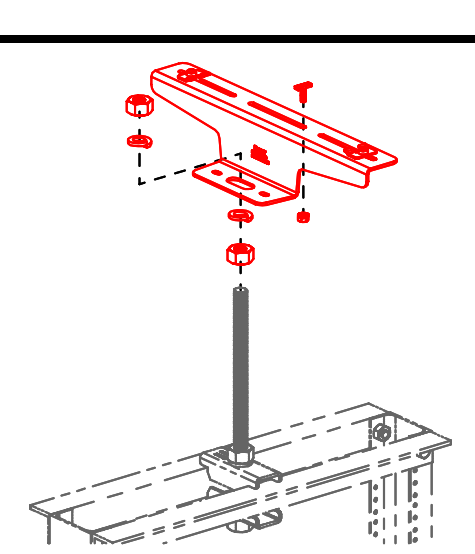
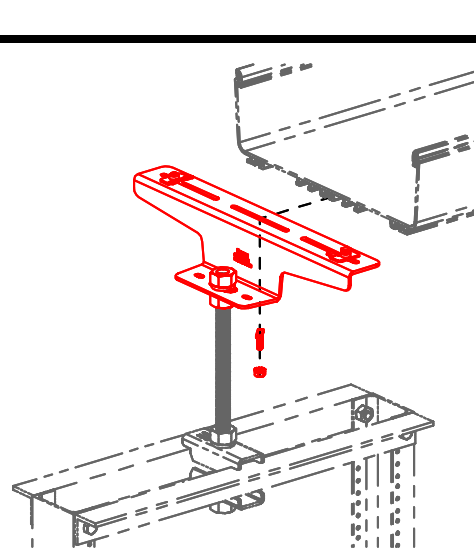
12x4 FIBERRUNNER[®] BRACKETS

PANDUIT PART NO. / BRACKET NAME	BRACKET COMPONENTS	BRACKET APPLICATION	USE THIS BRACKET WHEN:
<p style="text-align: center;">FR12TRBE58 <i>Existing Threaded Rod QUIKLOCK™ Bracket</i></p>			<ul style="list-style-type: none"> * You wish to install 12x4 FIBERRUNNER[®] channel using 5/8" threaded rod which is part of an <u>existing</u> installation. * You wish to run 12x4 FIBERRUNNER[®] channel off to the side of threaded rod.
<p style="text-align: center;">FR12TRBE58M <i>Existing Threaded Rod QUIKLOCK™ Bracket</i></p>			<ul style="list-style-type: none"> * You wish to install 12x4 FIBERRUNNER[®] channel using 16mm threaded rod which is part of an <u>existing</u> installation. * You wish to run 12x4 FIBERRUNNER[®] channel off to the side of threaded rod.
<p style="text-align: center;">FR12TRBN58 <i>New Threaded Rod QUIKLOCK™ Bracket</i></p>			<ul style="list-style-type: none"> * You wish to install 12x4 FIBERRUNNER[®] channel using a <u>new</u> piece of 5/8" threaded rod. * You wish to run 12x4 FIBERRUNNER[®] channel off to the side of threaded rod.
<p style="text-align: center;">FR12TRBN58M <i>New Threaded Rod QUIKLOCK™ Bracket</i></p>			<ul style="list-style-type: none"> * You wish to install 12x4 FIBERRUNNER[®] channel using a <u>new</u> piece of 16mm threaded rod. * You wish to run 12x4 FIBERRUNNER[®] channel off to the side of threaded rod.

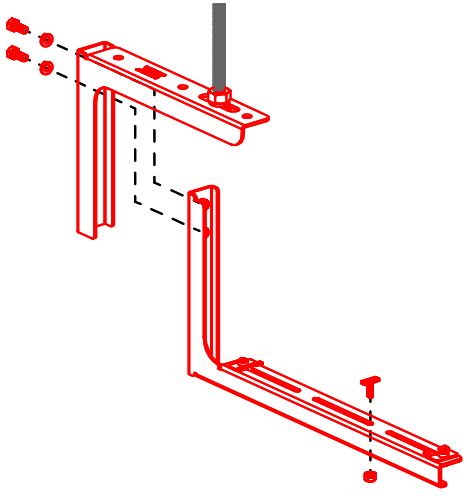
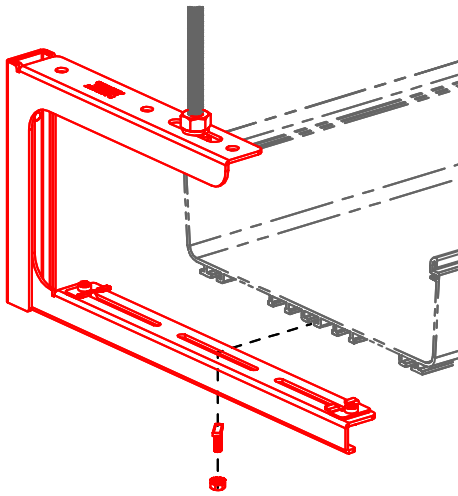
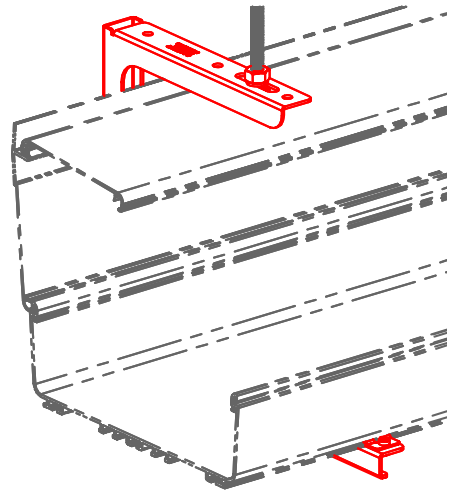
12x4 FIBERRUNNER® BRACKETS

PANDUIT PART NO. / BRACKET NAME	BRACKET COMPONENTS	BRACKET APPLICATION	USE THIS BRACKET WHEN:
<p>FR12ALB Adjustable Ladder QUIKLOCK™ Bracket</p>			<ul style="list-style-type: none"> * You wish to install 12x4 FIBERRUNNER® channel <u>without</u> using threaded rod. * You wish to run 12x4 FIBERRUNNER® channel off to the side of a 3/8" x 1 1/2" or 3/8" x 2" ladder rack. * You wish to install 12x4 FIBERRUNNER® channel from 4" - 12" above or below ladder rack (offset).
			<ul style="list-style-type: none"> * Note: Another method of installing this same bracket is shown here. The FIBERRUNNER® channel can be run off to the side and <u>below</u> the ladder rack.

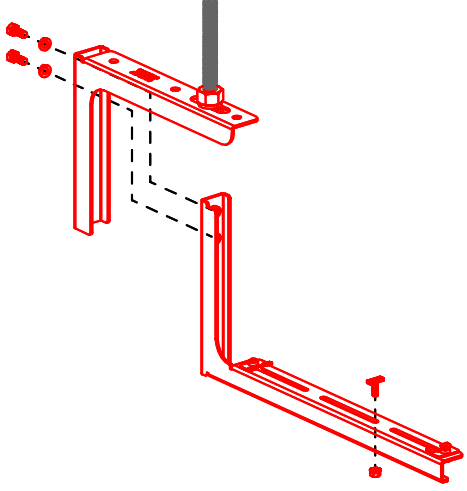
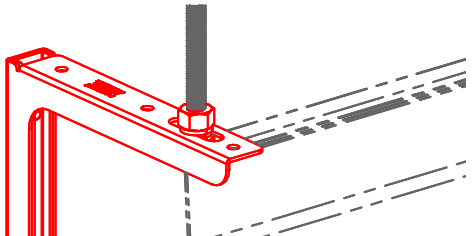
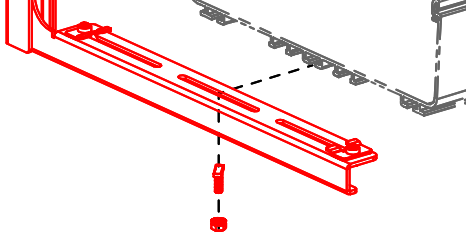
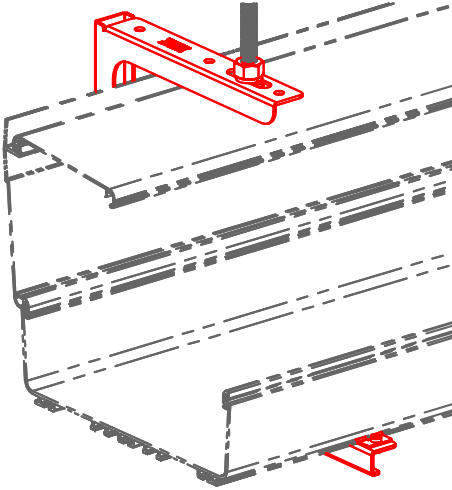
12x4 FIBERRUNNER® BRACKETS

PANDUIT PART NO. / BRACKET NAME	BRACKET COMPONENTS	BRACKET APPLICATION	USE THIS BRACKET WHEN:
<p>FR12CS12 <i>Center Support QUIKLOCK™ Bracket</i></p> <hr/> <p>FR12CS12M <i>Center Support QUIKLOCK™ Bracket</i></p>			<ul style="list-style-type: none"> * You wish to install 12x4 FIBERRUNNER® channel using 1/2" threaded rod. * You wish to run 12x4 FIBERRUNNER® channel directly over the threaded rod (which is attached to ladder rack or the top of a rack). <hr/> <ul style="list-style-type: none"> * You wish to install 12x4 FIBERRUNNER® channel using 12mm threaded rod. * You wish to run 12x4 FIBERRUNNER® channel directly over the threaded rod (which is attached to ladder rack or the top of a rack).
<p>FR12CS58 <i>Center Support QUIKLOCK™ Bracket</i></p> <hr/> <p>FR12CS58M <i>Center Support QUIKLOCK™ Bracket</i></p>			<ul style="list-style-type: none"> * You wish to install 12x4 FIBERRUNNER® channel using 5/8" threaded rod. * You wish to run 12x4 FIBERRUNNER® channel directly over the threaded rod (which is attached to ladder rack or the top of a rack). <hr/> <ul style="list-style-type: none"> * You wish to install 12x4 FIBERRUNNER® channel using 16mm threaded rod. * You wish to run 12x4 FIBERRUNNER® channel directly over the threaded rod (which is attached to ladder rack or the top of a rack).

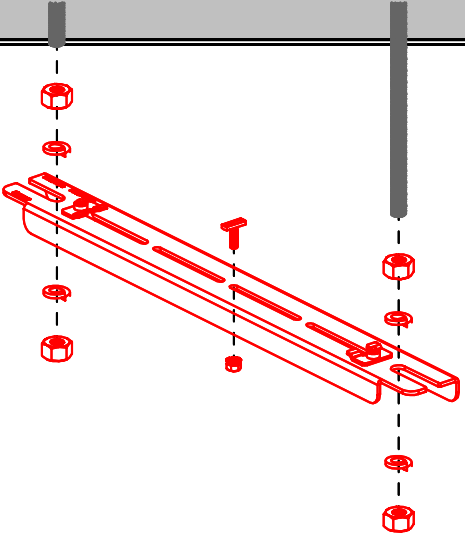
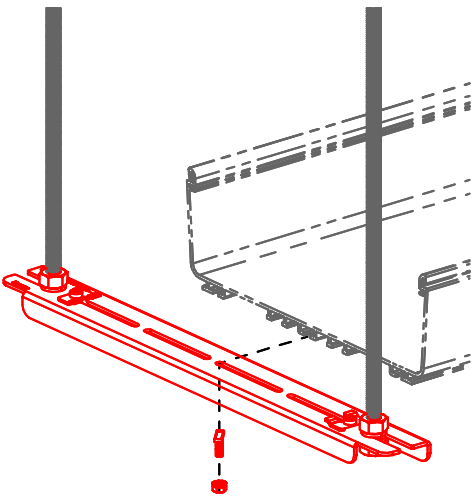
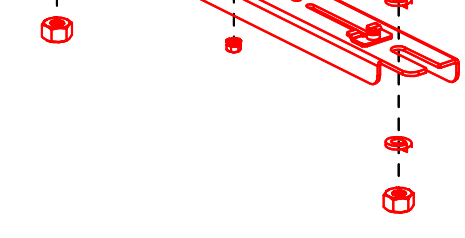
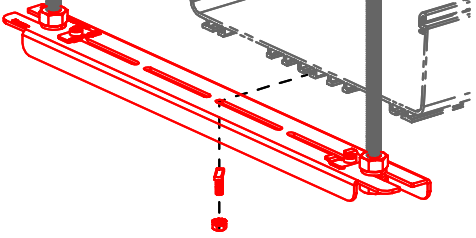
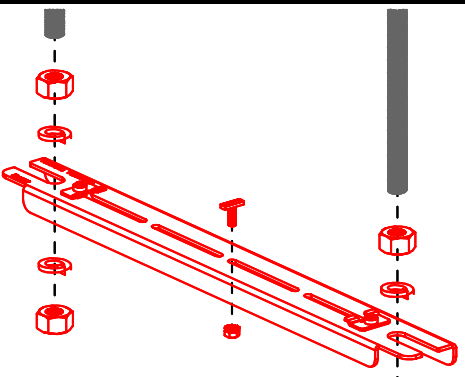
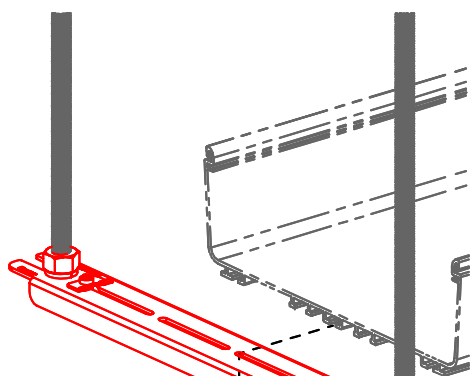
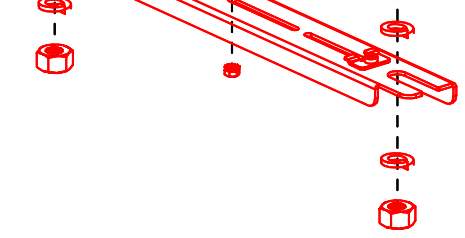
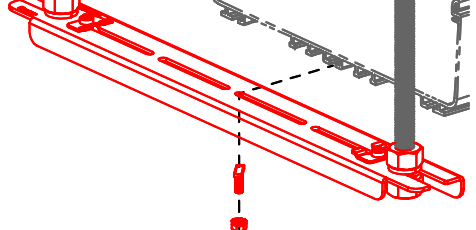
12x4 FIBERRUNNER® BRACKETS

PANDUIT PART NO. / BRACKET NAME	BRACKET COMPONENTS	BRACKET APPLICATION	USE THIS BRACKET WHEN:
<p>FR12ACB12 <i>Top Support Adjustable "C" QUIKLOCK™ Bracket</i></p> <hr/> <p>FR12ACB12M <i>Top Support Adjustable "C" QUIKLOCK™ Bracket</i></p>			<ul style="list-style-type: none"> * You wish to install 12x4 FIBERRUNNER® channel using 1/2" threaded rod. * You wish to run 12x4 FIBERRUNNER® channel directly under a new piece of threaded rod (which is attached to the ceiling, auxiliary framing or ladder rack). <hr/> <ul style="list-style-type: none"> * You wish to install 12x4 FIBERRUNNER® channel using 12mm threaded rod. * You wish to run 12x4 FIBERRUNNER® channel directly under a new piece of threaded rod (which is attached to the ceiling, auxiliary framing or ladder rack).
			<ul style="list-style-type: none"> * Note: Another method of installing this same bracket is shown here. The Adjustable "C" QUIKLOCK™ Bracket can be expanded to accommodate the 12x4 FIBERRUNNER® channel with the hinged cover open or closed.

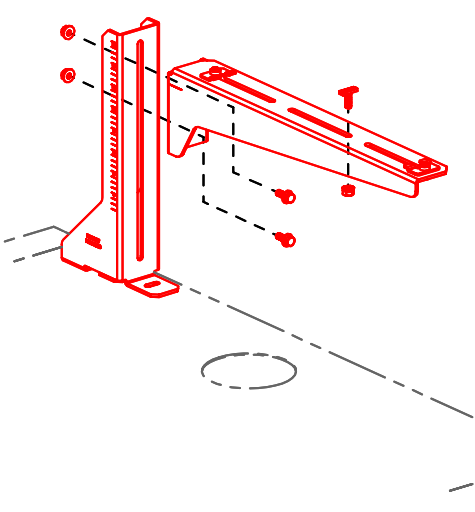
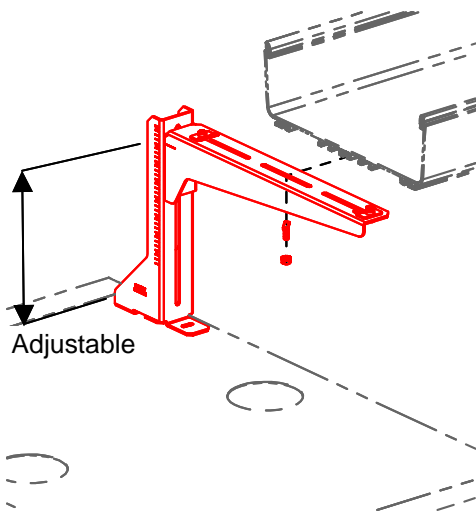
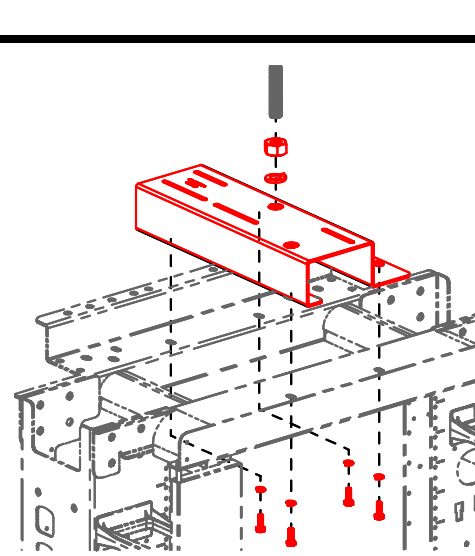
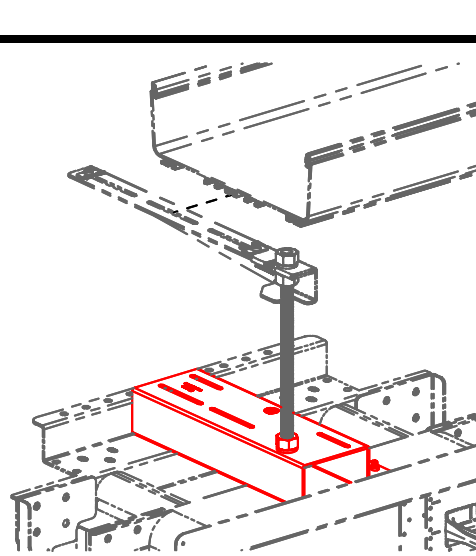
12x4 FIBERRUNNER® BRACKETS

PANDUIT PART NO. / BRACKET NAME	BRACKET COMPONENTS	BRACKET APPLICATION	USE THIS BRACKET WHEN:
<p>FR12ACB58 <i>Top Support Adjustable "C" QUIKLOCK™ Bracket</i></p>			<ul style="list-style-type: none"> * You wish to install 12x4 FIBERRUNNER® channel using 5/8" threaded rod. * You wish to run 12x4 FIBERRUNNER® channel directly under a new piece of threaded rod (which is attached to the ceiling, auxiliary framing or ladder rack).
<p>FR12ACB58M <i>Top Support Adjustable "C" QUIKLOCK™ Bracket</i></p>			<ul style="list-style-type: none"> * You wish to install 12x4 FIBERRUNNER® channel using 16mm threaded rod. * You wish to run 12x4 FIBERRUNNER® channel directly under a new piece of threaded rod (which is attached to the ceiling, auxiliary framing or ladder rack).
			<ul style="list-style-type: none"> * Note: Another method of installing this same bracket is shown here. The Adjustable "C" QUIKLOCK™ Bracket can be expanded to accommodate the 12x4 FIBERRUNNER® channel with the hinged cover open or closed.

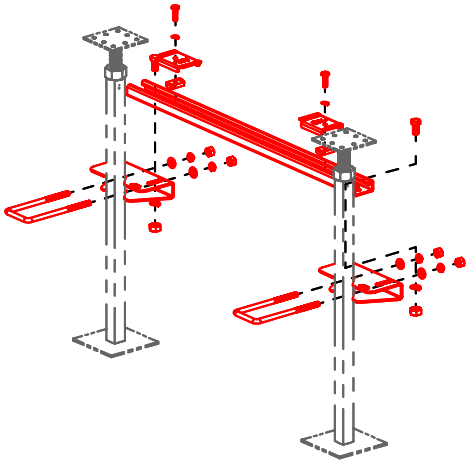
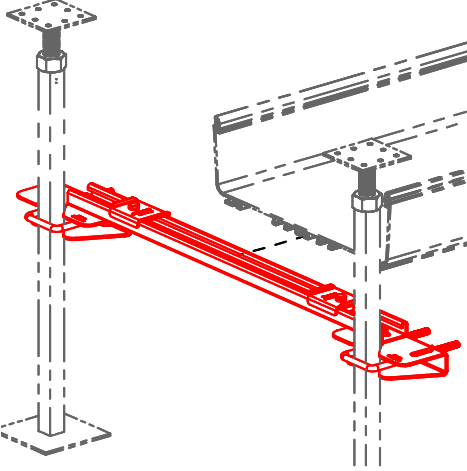
12x4 FIBERRUNNER® BRACKETS

PANDUIT PART NO. / BRACKET NAME	BRACKET COMPONENTS	BRACKET APPLICATION	USE THIS BRACKET WHEN:
FR12TB12 <i>Trapeze QUIKLOCK™ Bracket</i>			<ul style="list-style-type: none"> * You wish to install 12x4 FIBERRUNNER® using 1/2" threaded rod. * You wish to run 12x4 FIBERRUNNER® channel between 2 pieces of threaded rod. * You wish to provide full support for 12x4 FIBERRUNNER® channel to eliminate any bracket deflection.
FR12TB12M <i>Trapeze QUIKLOCK™ Bracket</i>			<ul style="list-style-type: none"> * You wish to install 12x4 FIBERRUNNER® channel using 12mm threaded rod. * You wish to run 12x4 FIBERRUNNER® channel between 2 pieces of threaded rod. * You wish to provide full support for 12x4 FIBERRUNNER® channel to eliminate any bracket deflection.
FR12TB58 <i>Trapeze QUIKLOCK™ Bracket</i>			<ul style="list-style-type: none"> * You wish to install 12x4 FIBERRUNNER® channel using 5/8" threaded rod. * You wish to run 12x4 FIBERRUNNER® channel between 2 pieces of threaded rod. * You wish to provide full support for 12x4 FIBERRUNNER® channel to eliminate any bracket deflection.
FR12TB58M <i>Trapeze QUIKLOCK™ Bracket</i>			<ul style="list-style-type: none"> * You wish to install 12x4 FIBERRUNNER® channel using 16mm threaded rod. * You wish to run 12x4 FIBERRUNNER® channel between 2 pieces of threaded rod. * You wish to provide full support for 12x4 FIBERRUNNER® channel to eliminate any bracket deflection.

12x4 FIBERRUNNER® BRACKETS

PANDUIT PART NO. / BRACKET NAME	BRACKET COMPONENTS	BRACKET APPLICATION	USE THIS BRACKET WHEN:
<p>FR12ACAB Adjustable Cabinet QUIKLOCK™ Bracket</p>		 <p>Adjustable</p>	<ul style="list-style-type: none"> * You wish to install 12x4 FIBERRUNNER® channel along the tops of cabinets. * You wish to run 12x4 FIBERRUNNER® channel by mounting directly to the top framework of cabinets. * You wish to install 12x4 FIBERRUNNER® channel from 4¼" to 12" above the cabinet tops.
<p>FRRMBNF58 NETFRAME™ Rack Mount QUIKLOCK™ Bracket</p>			<ul style="list-style-type: none"> * You wish to attach 5/8" threaded rod to the top of the Panduit NETFRAME™ rack. * You wish to then attach the appropriate bracket to the threaded rod so that 12x4 FIBERRUNNER® channel can be run.

12x4 FIBERRUNNER® BRACKETS

PANDUIT PART NO. / BRACKET NAME	BRACKET COMPONENTS	BRACKET APPLICATION	USE THIS BRACKET WHEN:
<p>FR12USB <i>Under-Floor Pedestal QUIKLOCK™ Bracket</i></p>			<ul style="list-style-type: none"> * You wish to install 12x4 FIBERRUNNER® channel underfloor. * You wish to attach 12x4 FIBERRUNNER® channel to underfloor pedestals which are up to 2" in diameter. <p>Note: This bracket can also be used to route and fully support 4x4 and 6x4 FIBERRUNNER® channel.</p>