

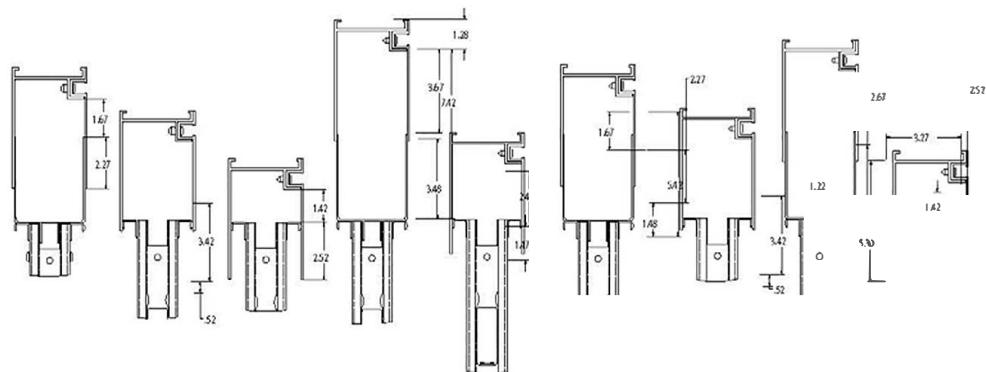
# MATRIX FIT

## TECHNICAL INFORMATION

## FIT Channels

AIS FIT is an aluminum extruded ceiling mounted channel which will retain AIS Matrix panels flush to a suspended or fixed ceiling for the purposes of visual privacy and lateral structural support. The FIT ceiling track utilizes a standard twist clip with a threaded stud attached to the ceiling grid for a standard suspended ceiling. This clip attaches to the grid **without penetrating** the ceiling. The ceiling Channel bolts to the clips. Ceiling Tiles can be either flush or recessed. The ceiling track is designed to accommodate any height ceiling from 8 foot high to 11 feet high with standard Matrix stack frames and connectors. The ceiling track is designed to allow for installation on unlevel floors and ceilings without custom tile cutting on site. As ceilings can range from 8 feet to 11 feet in any random increment, Matrix is restricted to 8 inch increments of height, the ceiling track is designed to expand to 8.7 inches, thus allowing for any standard stack combination to be attached to the ceiling.

There are 2 installation configurations which accomplish this coverage of ceiling heights. Certain ceiling heights will require a **Top Kit** extrusion package with a specific combination of stack frames. Other ceiling heights will require a **Full Kit** extrusion package. The Top Kit uses a 2 piece extrusion to attach to the ceiling. The Full Kit adds a third piece to extend the range of the adjustment. The below chart provides direction indicating which kit to use for which ceiling height, with minimum to maximum ceiling ranges for each scenario. Prior to specification, customers must supply dimensions from the floor to the ceiling grid along the footprint of the floor to ceiling frames. Use these dimensions to tell you which ceiling track kit as well as what combination of base frames and stacks to use. See Below.



Detail A 8 foot ceiling height 82" frame with 8" of stack-on  
 Detail B 8 foot 6 inch ceiling height 82" frame with 16" of stack-on  
 Detail C 9 foot ceiling height 82" frame with 24" of stack-on  
 Detail D 9 foot 6 inch ceiling height 82" frame with 24" of stack-on  
 Detail E 9 foot 9 inch ceiling height 82" frame with 32" of stack-on  
 Detail F 10 foot ceiling height 82" frame with 32" of stack-on  
 Detail G 10 foot 6 inch ceiling height 82" frame with 40" of stack-on  
 Detail H 10 foot 9 inch ceiling height 82" frame with 40" of stack-on  
 Detail I 11 foot ceiling height 82" frame with 48" of stack-on

Nominal	Min Ceiling	Max Ceiling	Frame	# 8" stacks	# 16" stacks	# 24" stacks	Top kit or Full Kit
8'	7' 10 3/8"	8' 2 1/4"	82"	1	0	0	Full
8' 6"	8' 2 5/8"	8' 6 1/2"	82"	0	1	0	Top
9'	8' 10 1/2"	9' 2 1/2"	82"	0	0	1	Top
9' 6"	9' 2 3/8"	9' 6"	82"	0	0	1	Full
9' 9"	9' 6 1/2"	9' 10 3/8"	82"	0	2	0	Full
10'	9' 10 5/32"	10' 2 1/4"	82"	0	2	0	Full
10' 6"	10' 2 5/8"	10' 6"	82"	0	1	1	Top
10' 9"	10' 6 5/32"	10' 10 3/16"	82"	0	1	1	Full
11'	10' 10 1/2"	11' 2 3/8"	82"	0	0	2	Top

Once a ceiling height range has been determined, Top Channel kits or Full Channel kits can be specified for the tops of Matrix stack frames. Channel kits are available from 24 inches long to 114 inches long in 6 inch increments. Channel kits should be specified to match the linear footprint of the Matrix panels in a run. Channels can "span" more than one panel, up to 114 inches. Thus a run of (3) 48 inch panels might be covered with (1) 8 foot (96 inch) Channel section and (1) 4 foot (48 inch) Channel section. Generally, longer channel kits are desirable to eliminate superfluous seams between channels.

# AIS FIT Shrouds

## FIT Shrouds

In addition to Channel kits, AIS FIT requires **Shroud Kits** to be specified at seams and junctions of channel kits such as 2-way 90 degree conditions or 3-way 120 degree conditions or a simple straight 180 join. Furthermore, certain conditions which include floor to ceiling (FTC) frames connected to low Non-FTC frames require not only a shroud kit but a special hilo trim. Shroud Kits are specified as Top Channel Shroud Kits or Full Channel Shroud Kits to correspond to the Top and Full Channel Kits. For example, all shroud kits on an installation requiring Full Channel Kits will require Full Shroud Kits.

Additionally, Shroud Kits are specified by the type of intersection of frames. Thus there is a 2-way 90 degree Top shroud kit, as well as a 2-way 90 degree Full Shroud kit. For ease of specification, kits have been labeled **A** through **S** for both Top and Full kits. The below chart indicates what letter type of kit to use for each intersection of frames.

Terms

Options

Frames

Connectors

Electrical

Tiles

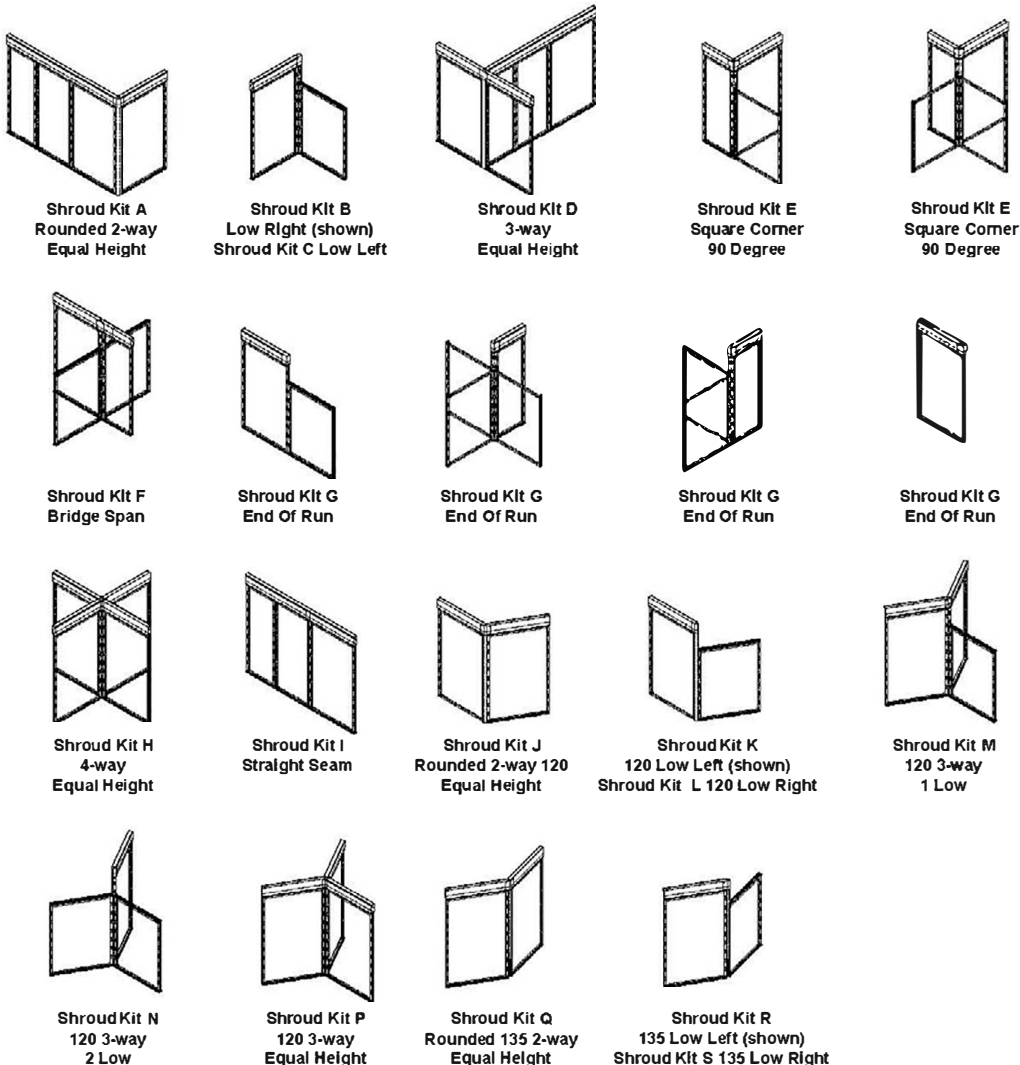
Worksurfaces

Support

Storage

Accessories

Specials



# AIS FIT HiLo Trim

# Matrix

## FIT HiLo Trim

Shroud Kits DO NOT include HiLo trim. FIT Hilos must be specified separately. FIT Hilos **are different** from standard Matrix Hilos. They have a **flat profile** which is designed to aesthetically blend the flat profile of the ceiling track with the radius topcaps of the Matrix Frames below. FIT Hilo trim covers are specified just like standard Hilos via the delta of the high frames to the low frames. Thus an 82 inch frame with a 24 inch stack attached to the ceiling and connected to a 66 frame in a straight line would require a  $(82+24-66=)$  40 inch FIT Hilo trim cover, **not** a standard Hilo trim cover. See Below

Terms

Options

Frames

Connectors

Electrical

Tiles

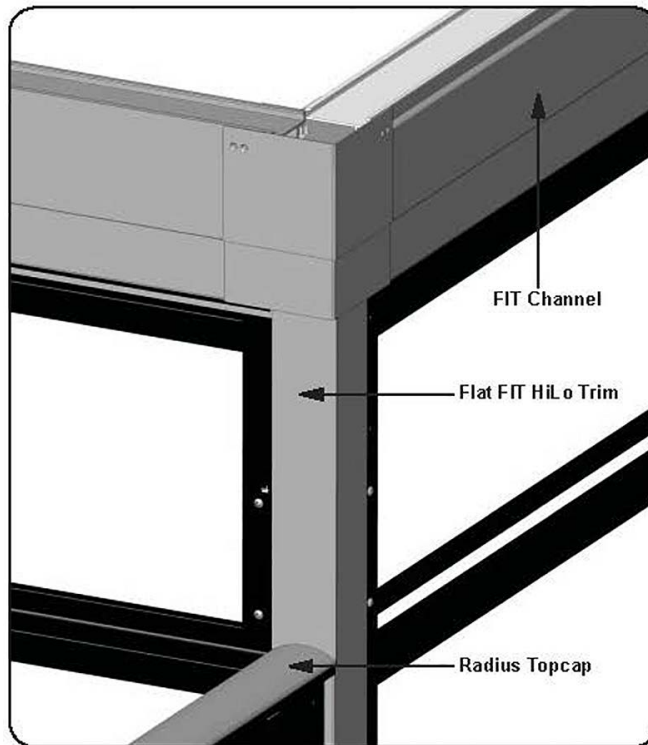
Worksurfaces

Support

Storage

Accessories

Specials



## Steps To Specify AIS FIT

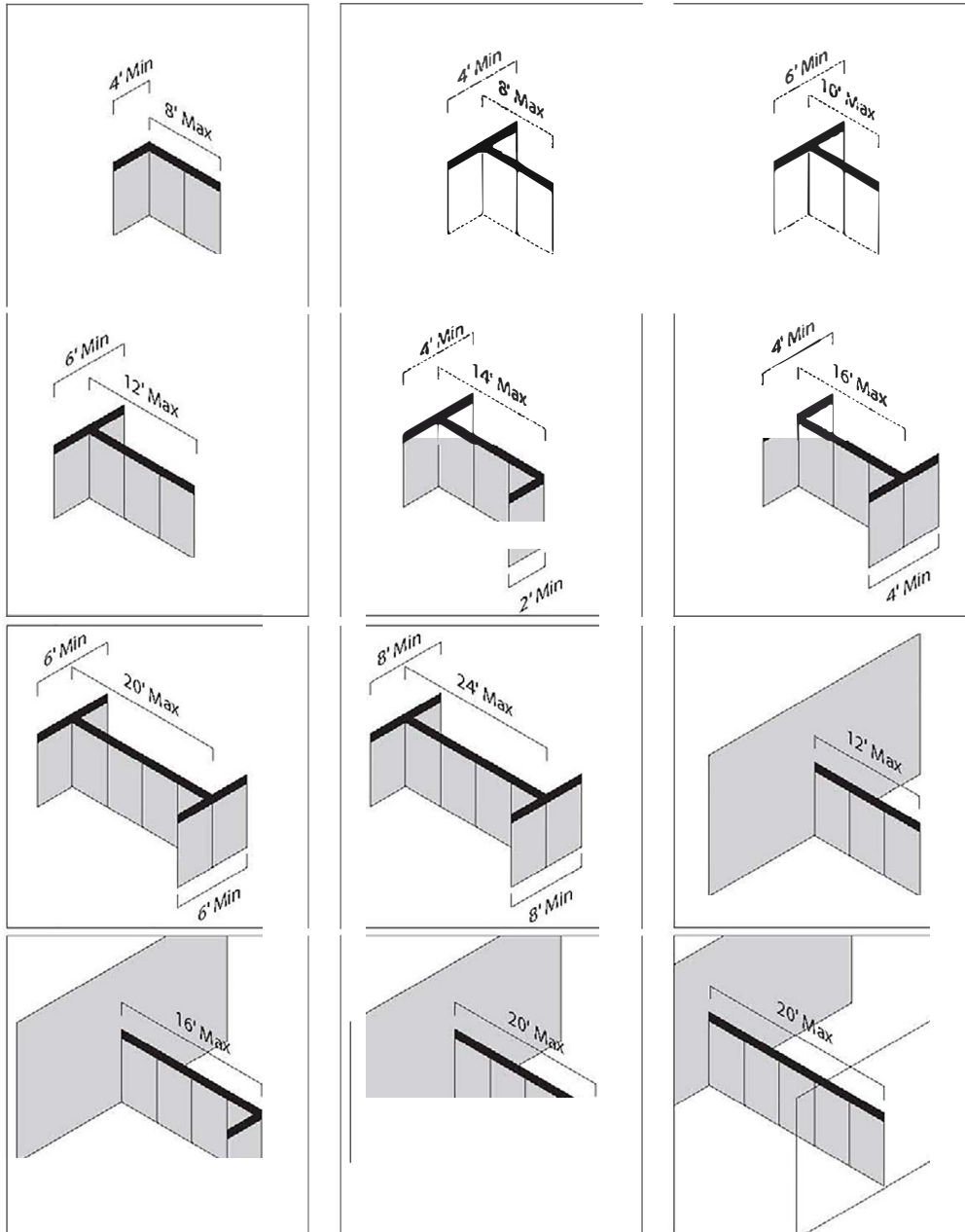
- 1) Determine ceiling height along footprint of Floor-to-Ceiling frames.
- 2) Determine what Frames and Stacks Frame heights are required using FIT Figure 1.
- 3) Determine which Type of Channel Kit and Shroud Kit is required, either Top Kit or Full Kit, using FIT Figure 1.
- 4) Lay out Channel Kits on footprint of frames to be attached to the ceiling.
- 5) Lay Out Shroud Kits on footprint of intersections between Channel Kits.
- 6) Lay out FIT Hilos where any low panels are connected to any Floor-to-Ceiling frames.

# AIS FIT Rules for Stability and Safety

# Matrix

## AIS Fit Rules for Stability and Safety

AIS Matrix frame configurations using FIT floor to ceiling channels follow the same rules for stability when **Hang On** components are used. See page 2-10. When hang on components are **not** used, AIS Matrix with FIT channels must follow the rules laid out on the next two pages. Note, all panels shown below are attached to the ceiling using FIT channels, as indicated by the black "channels" at the top of the panel symbols. Low panels "do not count" for stability purposes using FIT.



Terms

Options

Frames

Connectors

Electrical

Tiles

Worksurfaces

Support

Storage

Accessories

Specials

# AIS FIT Rules for Stability

**Matrix**

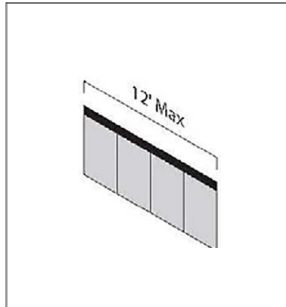
## AIS FIT Panel Runs Without Perpendicular Panels or Support

Panel runs with no perpendicular support from other panels or wallmounts must follow the following rules. Runs must be 12 feet or shorter if no safety cable is used. (See bottom of page). If runs are parallel with ceiling grid, FIT channels must be attached to **Parallel Grid Members**. See below.

Terms

Options

Frames



Channel Retaining Clips = X

Fit Channel Kit =

Ceiling Tile Grid =

Connectors

Electrical

Tiles

Worksurfaces

Support

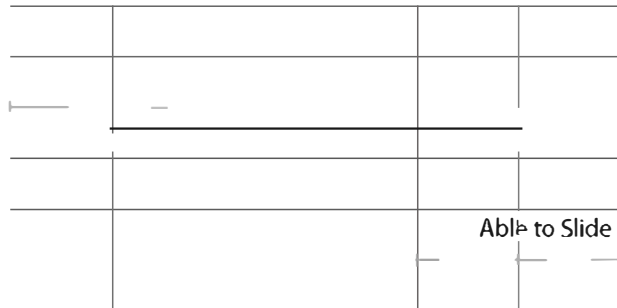
Storage

Accessories

Specials

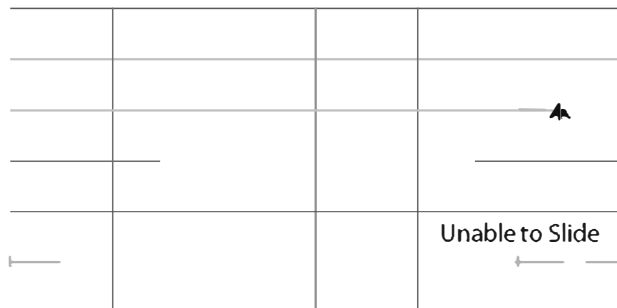
### Incorrect Attachment

Channels are attached to perpendicular grid, allowing channel retaining clips to slide 90 degrees to channel.



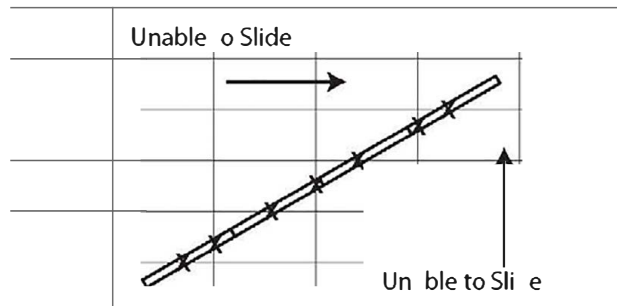
### Correct Attachment

Channels are attached to parallel grid, preventing channel retaining clips from sliding 90 degrees to channel.



### Correct Attachment

Channels are attached to parallel grid and perpendicular grid, preventing channel retaining clips from sliding in either direction.



# AIS FIT Rules for Stability

# Matrix

## Rules for Stability

Matrix panel runs using FIT Channels **without** perpendicular support as outlined on the previous page **require** a safety cable attaching the steel horizontal of the top stack frame to a ceiling Joist. 1 cable per 12 feet, minimum of 2 cables at each end of run. This cable is designed to prevent Matrix walls using FIT ceiling channels from tipping due to a catastrophic event such as an earthquake or horizontal impact at the base of the frames like a collision with a forklift.

AIS does **not** supply cables or hardware. Cables and hardware are readily available at most hardware stores.

Terms

Options

Frames

Connectors

Electrical

Tiles

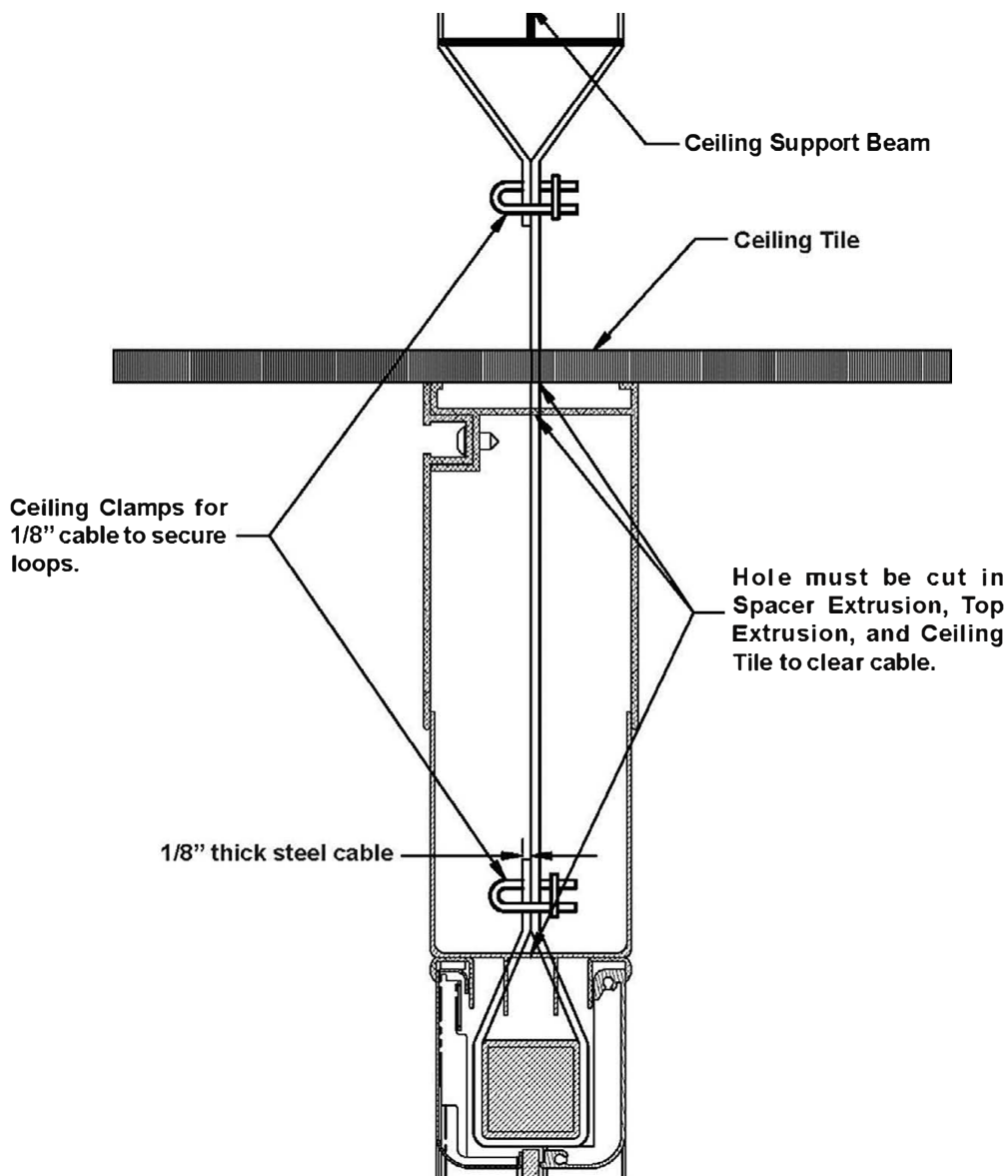
Worksurfaces

Support

Storage

Accessories

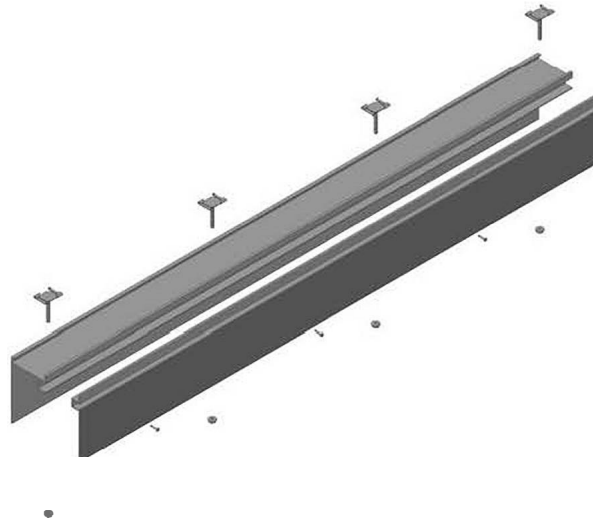
Specials



# FIT - Top Channel Kit

**Matrix**

Product Description



Terms

Options

Frames

Connectors

Electrical

Tiles

Options - Pricing - Upcharges

Worksurfaces

1) Top Kit Channel Color

Support

Storage

Accessories

Specials

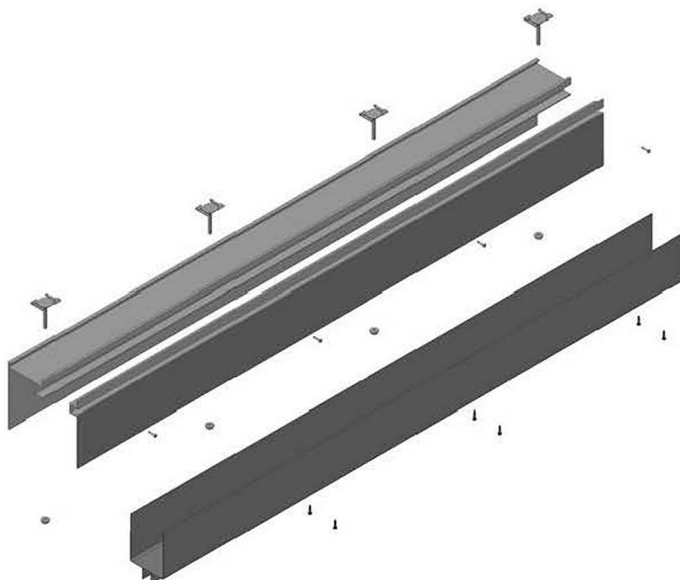
Product Number	Product Description	List
A-M2FITT24	FIT Top Kit Channel 24 inch	291
A-M2FITT30	FIT Top Kit Channel 30 inch	328
A-M2FITT36	FIT Top Kit Channel 36 inch	365
A-M2FITT42	FIT Top Kit Channel 42 inch	402
A-M2FITT48	FIT Top Kit Channel 48 inch	440
A-M2FITT54	FIT Top Kit Channel 54 inch	477
A-M2FITT60	FIT Top Kit Channel 60 inch	514
A-M2FITT66	FIT Top Kit Channel 66 inch	551
A-M2FITT72	FIT Top Kit Channel 72 inch	588
A-M2FITT78	FIT Top Kit Channel 78 inch	626
A-M2FITT84	FIT Top Kit Channel 84 inch	663
A-M2FITT90	FIT Top Kit Channel 90 inch	700
A-M2FITT96	FIT Top Kit Channel 96 inch	737
A-M2FITT102	FIT Top Kit Channel 102 inch	774
A-M2FITT108	FIT Top Kit Channel 108 inch	812
A-M2FITT114	FIT Top Kit Channel 114 inch	849



# FIT - Full Channel Kit

Matrix

Product Description



Terms

Options

Frames

Connectors

Electrical

Tiles

Options - Pricing - Upcharges

1) Full Kit Channel Color

Product Number	Product Description	List
A-M2FITF24	FIT Full Kit Channel 24 inch	291
A-M2FITF30	FIT Full Kit Channel 30 inch	328
A-M2FITF36	FIT Full Kit Channel 36 inch	365
A-M2FITF42	FIT Full Kit Channel 42 inch	402
A-M2FITF48	FIT Full Kit Channel 48 inch	440
A-M2FITF54	FIT Full Kit Channel 54 inch	477
A-M2FITF60	FIT Full Kit Channel 60 inch	514
A-M2FITF66	FIT Full Kit Channel 66 inch	551
A-M2FITF72	FIT Full Kit Channel 72 inch	588
A-M2FITF78	FIT Full Kit Channel 78 inch	626
A-M2FITF84	FIT Full Kit Channel 84 inch	663
A-M2FITF90	FIT Full Kit Channel 90 inch	700
A-M2FITF96	FIT Full Kit Channel 96 inch	737
A-M2FITF102	FIT Full Kit Channel 102 inch	774
A-M2FITF108	FIT Full Kit Channel 108 inch	812
A-M2FITF114	FIT Full Kit Channel 114 inch	849

Worksurfaces

Support

Storage



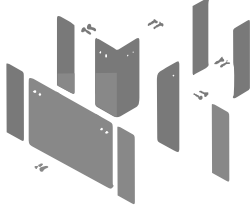

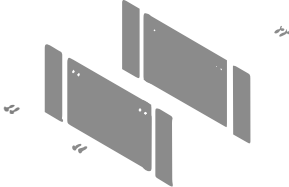
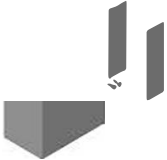






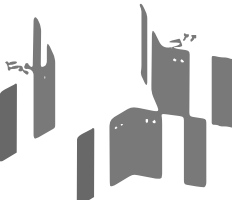
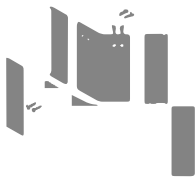
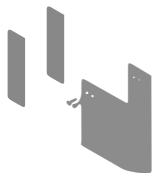
Accessories

Specials

# FIT - Top Channel Kit Shrouds

**Matrix**

## Product Description

Terms	Top Kit A 	Top Kit B & C (C) low panel right shown 	Top Kit D 
Options	Top Kit E 	Top Kit F 	Top Kit G 
Frames			
Connectors			
Electrical	Top Kit H 	Top Kit I 	Top Kit J 
Tiles			
Worksurfaces			
Support	Top Kit K & L (K) low panel left shown 	Top Kit M 	Top Kit N 
Storage			
Accessories			
Specials	Top Kit P 	Top Kit Q 	Top Kit R & S (R) low panel left shown 

# FIT - Top Channel Kit Shrouds

**Matrix**

Options - Pricing - Upcharges

1) Top Channel Kit Shroud Color

Product Number	Product Description	List
A-M2FITTKA	FIT Top Kit A - Rounded 90 Corner Equal Ht	353
A-M2FITTKB	FIT Top Kit B - Rounded 90 Corner Low Panel Left	126
A-M2FITTKC	FIT Top Kit C - Rounded 90 Corner Low Panel Right	201
A-M2FITTKD	FIT Top Kit D - 3-way 90 Front Span	426
A-M2FITTKE	FIT Top Kit E - Square 90 Corner	343
A-M2FITTKF	FIT Top Kit F - Bridge Span	229
A-M2FITTKG	FIT Top Kit G - End of Run	170
A-M2FITTKH	FIT Top Kit H - 4-Way 90	459
A-M2FITTKI	FIT Top Kit I - Straight Seam	138
A-M2FITTKJ	FIT Top Kit J - Rounded 120 Corner Equal Ht	297
A-M2FITTKK	FIT Top Kit K - Rounded 120 Corner Low Panel Left	188
A-M2FITTKL	FIT Top Kit L - Rounded 120 Corner Low Panel Right	139
A-M2FITTKM	FIT Top Kit M - 3-Way 120 One Low	194
A-M2FITTKN	FIT Top Kit N - 3-Way 120 Two Low	194
A-M2FITTKP	FIT Top Kit P - 3-Way 120 Equal Ht	436
A-M2FITTKQ	FIT Top Kit Q - Rounded 135 Corner Equal Ht	291
A-M2FITTKR	FIT Top Kit R - Rounded 135 Corner Low Panel Left	200
A-M2FITTKS	FIT Top Kit S - Rounded 135 Corner Low Panel Right	200

Terms

Options

Frames

Connectors

Electrical

Tiles

Worksurfaces

Support

Storage

Accessories

Specials

# FIT - Full Channel Kit Shrouds

**Matrix**

## Product Description

Terms

Options

Frames

Connectors

Electrical

Tiles

Worksurfaces

Support

Storage

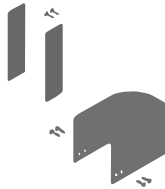
**Accessories**

Specials

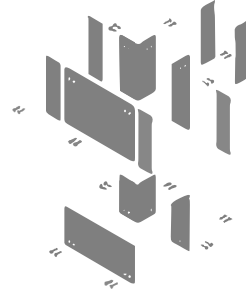
**Top Kit A**



**Top Kit B & C**  
(C) low panel right shown



**Top Kit D**



**Top Kit E**



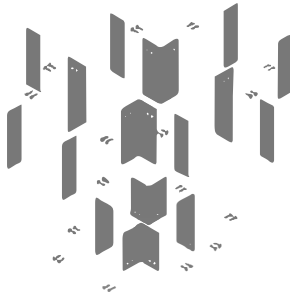
**Top Kit F**



**Top Kit G**



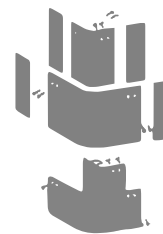
**Top Kit H**



**Top Kit I**



**Top Kit J**



**Top Kit K & L**  
(K) low panel left shown



**Top Kit M**



**Top Kit N**

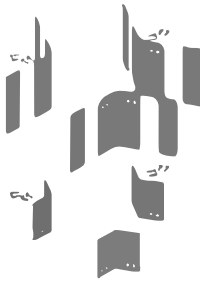


# FIT - Full Channel Kit Shrouds

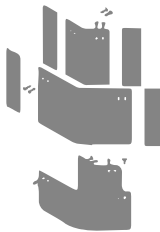
**Matrix™**

## Product Description

Top Kit P



Top Kit Q



Top Kit R & S  
(R) low panel left shown



## Options - Pricing - Upcharges

1) Full Channel Kit Shroud Color

Product Number	Product Description	List
A-M2FITFKA	FIT Full Kit A - Rounded 90 Corner Equal Ht	353
A-M2FITFKB	FIT Full Kit B - Rounded 90 Corner Low Panel Left	126
A-M2FITFKC	FIT Full Kit C - Rounded 90 Corner Low Panel Right	201
A-M2FITFKD	FIT Full Kit D - 3-way 90 Front Span	426
A-M2FITFKE	FIT Full Kit E - Square 90 Corner	343
A-M2FITFKF	FIT Full Kit F - Bridge Span	229
A-M2FITFKG	FIT Full Kit G - End of Run	170
A-M2FITFKH	FIT Full Kit H - 4-Way 90	459
A-M2FITFKI	FIT Full Kit I - Straight Seam	138
A-M2FITFKJ	FIT Full Kit J - Rounded 120 Corner Equal Ht	297
A-M2FITFKK	FIT Full Kit K - Rounded 120 Corner Low Panel Left	188
A-M2FITFKL	FIT Full Kit L - Rounded 120 Corner Low Panel Right	139
A-M2FITFKM	FIT Full Kit M - 3-Way 120 One Low	194
A-M2FITFKN	FIT Full Kit N - 3-Way 120 Two Low	194
A-M2FITFKP	FIT Full Kit P - 3-Way 120	436
A-M2FITFKQ	FIT Full Kit Q - Rounded 135 Corner Equal Ht	291
A-M2FITFKR	FIT Full Kit R - Rounded 135 Corner Low Panel Left	200
A-M2FITFKS	FIT Full Kit S - Rounded 135 Corner Low Panel Right	200

Terms

Options

Frames

Connectors

Electrical

Tiles

Worksurfaces

Support

Storage

Accessories

Specials

# FIT - HiLo trim

Matrix

## Product Description

Terms

Options

Frames

Connectors

Electrical

Tiles

Worksurfaces

Options - Pricing - Upcharges

1) Top K t Channel Color

Support

Storage

Accessories

Specials

Product Number	Product Description	List
A-M2FITH08	FIT Hilo Trim 8	54
A-M2FITH16	FIT Hilo Trim 16	80
A-M2FITH24	FIT Hilo Trim 24	77
A-M2FITH32	FIT Hilo Trim 32	88
A-M2FITH40	FIT Hilo Trim 40	109
A-M2FITH48	FIT Hilo Trim 48	109
A-M2FITH56	FIT Hilo Trim 56	117
A-M2FITH64	FIT Hilo Trim 64	123
A-M2FITH72	FIT Hilo Trim 72	122
A-M2FITH80	FIT Hilo Trim 80	132