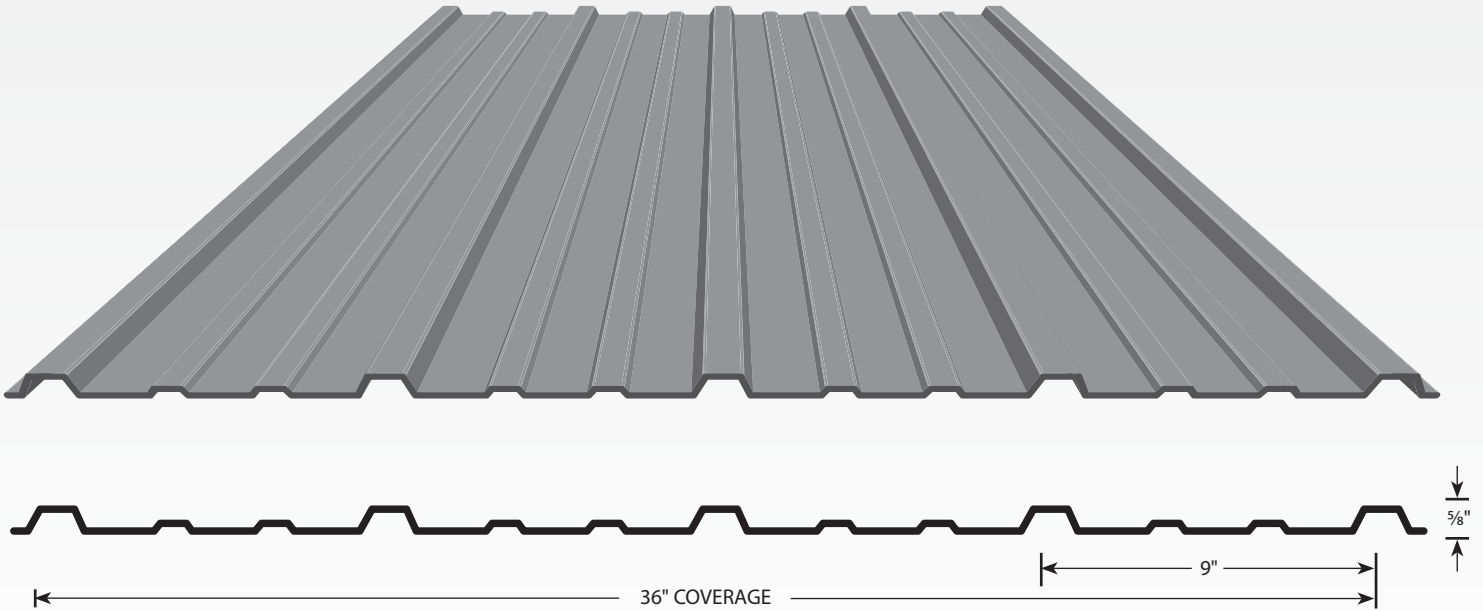


Panel-Loc™

Product Guide

HELPFUL INFORMATION ON PANELS, TRIMS, GUTTERS AND ACCESSORIES



The men and women at Central States Manufacturing, Inc. would like to welcome you.

Central States Manufacturing, Inc. is a **100% employee-owned** company devoted to the **personal growth and well-being** of our owners. We are dedicated to **increasing the value of our company** by **making Raving Fans** of our customers through **exceeding their expectations**, being **easy to do business with**, demonstrating **excellence** in all aspects of our business and being committed to **improving their business**.

It is our promise to maintain **honesty and integrity** with everyone our lives may touch. With thanksgiving for the blessings we have been given, we are committed to **serving the communities** where we live and work by giving back a portion of our time, talents and profits.



Right.
On Time.
Every Time.®

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Notice: *The application and detail drawings in this manual are strictly for illustration purposes and may not be applicable to all building designs or product installations. Projects should conform to local building codes. Central States Manufacturing is not responsible for the performance of the material if it is not installed correctly.*

Information contained in this booklet was in effect at the time of publication and is subject to change without notice.

PANEL CODES

Use the panel and color codes below to create the code you need. For example: Panel-Loc™ Ultra Rustic would be HRRLOC

PANEL PROFILE	TYPE	CODE
Panel-Loc™	Ultra SMP	HR(color)LOC
Panel-Loc™	Fluropon®	K(color)LOC
Panel-Loc™	Prime SMP	P(color)LOC
Panel-Loc™	Standard	ST(color)LOC
Panel-Loc™	Thrifty SMP 26 ga.	6(color)5LOC

COLOR CODES

SMP	CODE
Alamo	W
Black	K
Brilliant	BI
Brown	BR
Burgundy	BG
Burnished Slate	BS
Charcoal	C
Colony	CG
Copper Metallic*	CM
Crimson	CR
Desert	DS
Forest	DGR
Gallery	GB
Galvalume®	GL
Galvanized	Z
Gray	G
Hunter	GR
Ivory	I
Light Stone	S
Ocean	B
Pewter	PG
Rustic	R
Tan	T
Taupe	TA

* Copper Metallic is Fluropon®. Galvalume® is a registered trademark of BIEC International, Inc..

PANEL-LOC

Panel-Loc is available painted or bare Galvalume® in Ultra 26 ga., Prime 29 ga., and Standard 29 ga. Ultra and Prime panels feature CentralGuard protection and a lifetime paint warranty. Standard panels feature a 40-year paint warranty.

CentralGuard is our specific combination of everything that goes into making the highest-quality metal panels. Choose CentralGuard for the perfect balance of fade protection, rust blocking, and dent resistance.

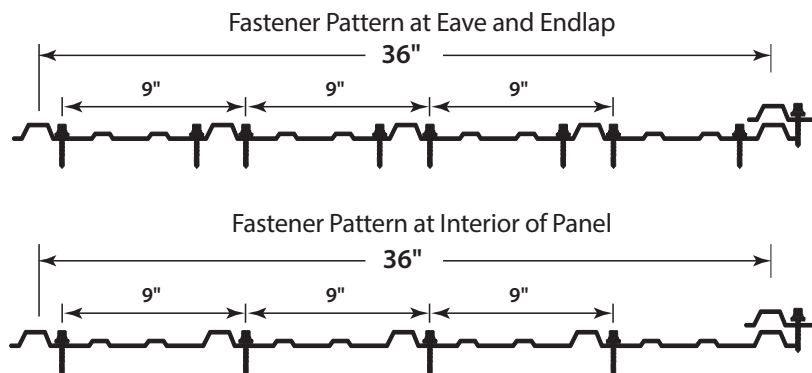
All panels are SMP paint system except for Copper Metallic, which is Fluropon® 70% PVDF. Bare (non-painted) Galvalume® and galvanized panels from Central States have an acrylic coating which eliminates using oils during manufacturing, and eliminates fingerprinting and foot marking during installation.

The minimum roof slope for the 5/8" Panel-Loc™ is 3:12. If slopes less than 3:12 are needed, International Building Code (IBC) allows a sealant tape to be used on the laps of the panel.



FASTENER SPACING

Screws may be placed either in the rib or the flat for both roof and wall panels. Stitch screws also available.



Galvalume® is a registered trademark of BIEC International, Inc.

SECTION PROPERTIES

36" WIDE, CSMI PANEL-LOC™ PANEL

Gauge	Thickness (inches)	Weight (psf)	Yield Stress (ksi)	Top in Compression (Positive Bending)			Bottom in Compression (Negative Bending)		
				Ixx	Sxx	Ma	Ixx	Sxx	Ma
				in ⁴ /ft	in ³ /ft	in.kips/ft	in ⁴ /ft	in ³ /ft	in.kips/ft
26 ULTRA	0.0185	0.860	80.0	0.0097	0.0198	0.7097	0.0070	0.0189	0.677
29 PRIME	0.0150	0.698	80.0	0.0073	0.0152	0.5460	0.0053	0.0152	0.5477

Section properties and allowables are calculated in accordance with 1996 AISI Specifications and 1999 AISI Supplement No. 1. I +/- is for deflection determination. S +/- is for bending determination. Ma is allowable bending moment. All values are for one foot of panel width. These loads are for panel strength. Frames, purlins, fasteners and all supports must be designed to resist all loads imposed on the panel. Allowable outward loads based on stress have been increased by 33.33% for wind uplift. Allowable loads for deflection are based on deflection limitation of span/180 or span/240. For roof panels, self weight of the panel has to be deducted from the allowable inward load to arrive at the actual "live load" carrying capacity of the panel. Minimum bearing length must be checked. Minimum deliverable bare steel thickness should not be less than 0.95 of design thickness.

THEORETICAL ALLOWABLE LIVE & WIND LOADS

SINGLE SPAN CONDITION

Span (feet)	29 Gauge & 80 ksi				26 Gauge & 80 ksi			
	LL (S)(psf)	LL (D) L/180(psf)	LL (D) L/240(psf)	WL(psf)	LL (S)(psf)	LL (D) L/180(psf)	LL (D) L/240(psf)	WL(psf)
2	91.0	80.1	60.1	121.4	118.3	105.6	79.2	150.2
2.5	58.2	41.0	30.8	77.7	75.7	54.1	40.6	96.1
3	40.4	23.7	17.8	54.0	52.6	31.3	23.5	66.8
3.5	29.7	15.0	11.2	39.6	38.6	19.7	14.8	49.1
4	22.8	10.0	7.5	30.3	29.6	13.2	9.9	37.6
4.5	18.0	7.0	5.3	24.0	23.4	9.3	7.0	29.7
5	14.6	5.1	3.8	19.4	18.9	6.8	5.1	24.0
6	10.1	3.0	2.2	13.5	13.1	3.9	2.9	16.7

TWO SPAN CONDITION

Span (feet)	29 Gauge & 80 ksi				26 Gauge & 80 ksi			
	LL (S)(psf)	LL (D) L/180(psf)	LL (D) L/240(psf)	WL(psf)	LL (S)(psf)	LL (D) L/180(psf)	LL (D) L/240(psf)	WL(psf)
2	91.3	91.3	78.2	121.0	112.9	112.9	103.1	157.3
2.5	58.4	53.4	40.1	77.5	72.3	70.4	52.8	100.7
3	40.6	30.9	23.2	53.8	50.2	40.7	30.6	69.9
3.5	29.8	19.5	14.6	39.5	36.9	25.7	19.2	51.4
4	22.8	13.0	9.8	30.3	28.2	17.2	12.9	39.3
4.5	18.0	9.2	6.9	23.9	22.3	12.1	9.1	31.1
5	14.6	6.7	5.0	19.4	18.1	8.8	6.6	25.2
6	10.1	3.9	2.9	13.4	12.5	5.1	3.8	17.5

THREE OR MORE SPAN CONDITION

Span (feet)	29 Gauge & 80 ksi				26 Gauge & 80 ksi			
	LL (S)(psf)	LL (D) L/180(psf)	LL (D) L/240(psf)	WL(psf)	LL (S)(psf)	LL (D) L/180(psf)	LL (D) L/240(psf)	WL(psf)
2	106.6	106.6	106.6	141.1	131.9	131.9	131.9	183.8
2.5	68.2	68.2	58.1	90.5	84.4	84.4	76.5	117.6
3	47.4	44.8	33.6	62.8	58.6	58.6	44.3	81.7
3.5	34.8	28.2	21.2	46.2	43.1	37.2	27.9	60.0
4	26.7	18.9	14.2	35.3	33.0	24.9	18.7	45.9
4.5	21.1	13.3	10.0	27.9	26.1	17.5	13.1	36.3
5	17.1	9.7	7.3	22.6	21.1	12.8	9.6	29.4
6	11.8	5.6	4.2	15.7	14.7	7.4	5.5	20.4

Theoretical allowable loads are based on uniform span lengths. LL (S) is allowable live load based on stress limitation. LL (D) is allowable live load based on deflection limitation of L/180 or L/240. WL is allowable wind load and has been increased by 33.33%.

DELIVERY

Deliveries will be made using a 65' tractor/trailer weighing approximately 80,000 lbs. It is imperative that all delivery locations be accessible by a vehicle of this size. Our drivers have the authority to refuse delivery to any location they see as unsafe or inaccessible. The customer is responsible

for any charges incurred if truck is detained for any reason. The customer is responsible for unloading all trucks. Any damage that occurs at this point is the customer's responsibility. There must be equipment or at least 3 people available to unload the truck.

CARE AND HANDLING

STAGE

Galvalume® steel sheets have a good service life when exposed to normal weather conditions however, to protect the appearance of panels and trims from damage, there are a few simple precautions that can be taken. The steel sheets are subject to stain when water sits upon, or becomes trapped between the sheets. If the Galvalume® sheets are to be stored for any period of time, they should be stored only in a dry place, preferably under a roof. Stand panels on end and fan them out at the bottom to provide air circulation and moisture run off. If space does not allow this, the panels should be separated, blocked off of the floor at least 12 inches to allow air flow, and stored at an incline to encourage drainage. The panels should then be covered, yet still have good air flow through the sheets to prevent condensation. Do not use a plastic cover, as this may cause the panels to sweat or condensation to occur.

STORAGE

Failure to follow these steps may result in wet storage stains and premature rusting. The manufacturer's warranty will be void at this time, and the manufacturer will not be responsible.

HANDLING

When unloading panels, extreme caution must be employed. Care needs to be used when unloading panels with a forklift. Panel edges and underside paint may become damaged if the forklift driver does not use caution. Once at the job site, care must be taken in order to protect the painted surface. When unbundling the panels, never drag them across the surface of one another. This may cause scratches across the underneath panels. It is recommended that the panels be "rolled" off the top of the bundle to prevent scratching. Never lift panels by the ends, instead lift the panels longitudinally and carry vertically.

Panel edges are very sharp, therefore, safety equipment should be worn by all workers handling the material.

CARE AND HANDLING

CUTTING

A portable field shear is the ideal method for cutting panels. Nibblers or a power shear may also be used. Although we do not recommend it, if you decide to cut with a saw, it is very important that the panels be turned upside down during cutting so that hot shavings do not come in contact with the painted surface. Make sure all adjacent panels are covered so that shavings are not imbedded in these panels. If metal shavings become imbedded in the paint surface, they will quickly rust. To avoid this, panels should be thoroughly wiped of all filings on both sides of the panel. Failure to comply with the recommended cutting procedures releases the manufacturer of any responsibility.

DRILLING

Panels should not be drilled while stacked. This will cause shavings that will become imbedded in the paint surface.

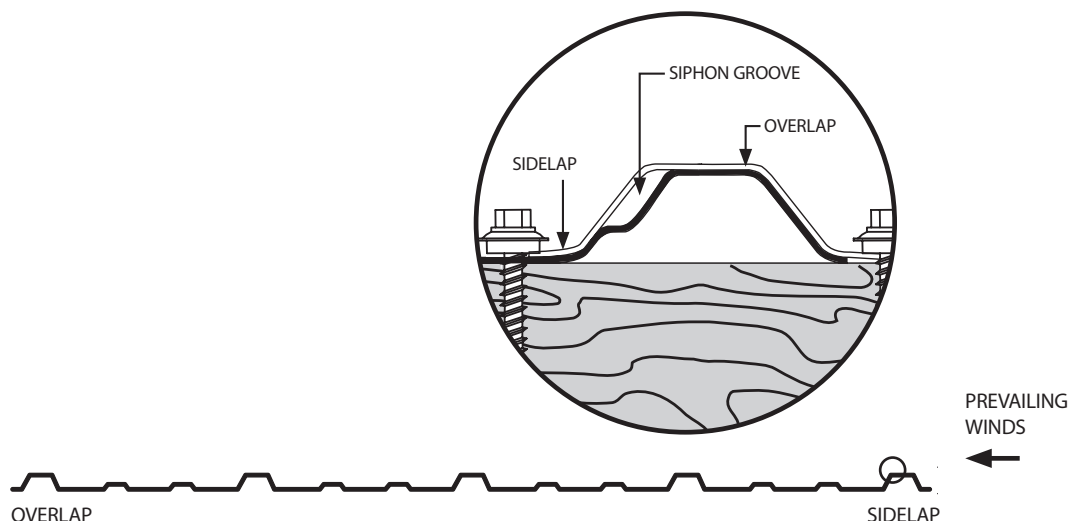
Shavings created by saw cutting or drilling may cause the panel to rust and will void warranties in affected areas.



SIPHON GROOVE

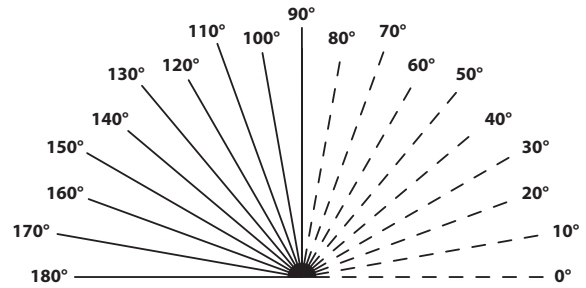
Panel-Loc has two vertical edges, the overlap and the sidelap. The sidelap edge has a specific bend in the last major rib, called a siphon groove. When the overlap edge is installed on top of the sidelap edge, it creates an air gap that prevents water from wicking under the panel.

Panels should be installed with the overlap facing away from the prevailing wind. Do not damage the siphon groove by using a stitch screw on top of the major rib or clog it with butyl tape.



CONVERTING PITCH TO DEGREE

Use these charts to calculate degrees when designing custom trim.
Please specify pitch when ordering.



SINGLE SLOPE PITCHES

Fascia, Eave, Endwall, Tie-In, Gutter

	1:12 PITCH	2:12 PITCH	3:12 PITCH	4:12 PITCH	5:12 PITCH	6:12 PITCH	7:12 PITCH	8:12 PITCH	9:12 PITCH	10:12 PITCH	11:12 PITCH	12:12 PITCH
SINGLE SLOPE PITCHES	94°	99°	104°	108°	112°	116°	120°	123°	126°	129°	132°	135°
DOUBLE SLOPE PITCHES	173°	167°	160°	154°	148°	143°	138°	134°	130°	126°	123°	120°
RIDGE CAP	170°	161°	152°	143°	135°	127°	120°	113°	106°	100°	95°	90°

DOUBLE SLOPE PITCHES

Hip, Valley

RIDGE CAP

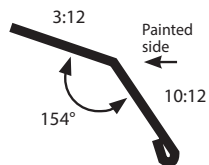
LOWER ROOF PITCH (INCHES OF RISE OVER 12" OF RUN)

TRANSITION TRIM

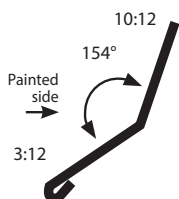
Find the box that intersects your lower and upper roof pitches.

If the intersection lands in the gray area, select an Lower Transition trim.

Upper Transition Trim



Lower Transition Trim



UPPER ROOF PITCH (INCHES OF RISE OVER 12" OF RUN)

	1:12 PITCH	2:12 PITCH	3:12 PITCH	4:12 PITCH	5:12 PITCH	6:12 PITCH	7:12 PITCH	8:12 PITCH	9:12 PITCH	10:12 PITCH	11:12 PITCH	12:12 PITCH	13:12 PITCH	14:12 PITCH	15:12 PITCH	16:12 PITCH	17:12 PITCH	18:12 PITCH
1:12 PITCH		175°	171°	166°	162°	158°	155°	151°	148°	145°	142°	140°	137°	135°	133°	132°	130°	128°
2:12 PITCH	175°		175°	171°	167°	163°	159°	156°	153°	150°	147°	144°	142°	140°	138°	136°	135°	133°
3:12 PITCH	171°	175°		176°	171°	167°	164°	160°	157°	154°	152°	149°	147°	145°	143°	141°	139°	138°
4:12 PITCH	166°	171°	176°		176°	172°	168°	165°	162°	159°	156°	153°	151°	149°	147°	145°	144°	142°
5:12 PITCH	162°	167°	171°	176°		176°	172°	169°	166°	163°	160°	158°	155°	153°	151°	149°	148°	146°
6:12 PITCH	158°	163°	167°	172°	176°		176°	173°	170°	167°	164°	162°	159°	157°	155°	153°	152°	150°
7:12 PITCH	155°	159°	164°	168°	172°	176°		177°	173°	170°	168°	165°	163°	161°	159°	157°	155°	154°
8:12 PITCH	151°	156°	160°	165°	169°	173°	177°		177°	174°	171°	169°	166°	164°	162°	161°	159°	157°
9:12 PITCH	148°	153°	157°	162°	166°	170°	173°	177°		177°	174°	172°	170°	167°	166°	164°	162°	161°
10:12 PITCH	145°	150°	154°	159°	163°	167°	170°	174°	177°		177°	175°	173°	170°	168°	167°	165°	163°
11:12 PITCH	142°	147°	152°	156°	160°	164°	168°	171°	174°	177°		178°	175°	173°	171°	169°	168°	166°
12:12 PITCH	140°	144°	149°	153°	158°	162°	165°	169°	172°	175°	178°		178°	176°	174°	172°	170°	169°

SQUARE CONVERSIONS

For 26 ga. and 29 ga. low rib panels there are 2 formulas; one for panels measured in inches and one for panels measured in feet. While the actual panel width is 38", there will only be 36" of coverage per panel. Squares are figured based on actual width. One square is equal to a panel 31.579 feet long. One square of metal will give you approximately 94.5 square feet of coverage. One square is equal to 14,400 square inches.

EXAMPLE USING INCHES:

38 (or width in inches) multiplied by length in inches
multiplied by # of pieces divided by 14,400

Number of panels = 12 $\frac{38" \times 144" \times 12}{14,400}$ equals 4.56 squares of metal
Panel width = 38"
Panel length = 144"
Square inches = 14,400

EXAMPLE USING FEET:

length in feet multiplied by # of pieces
divided by 31.579*

Number of panels = 12 $\frac{12 \times 12}{31.579}$ equals 4.56 squares of metal
Panel width = 38"
Panel length = 12'
Square inches = 14,400

*For 26ga. Thrifty Panel-Loc Plus or Panel-Loc, use 31.373 in place of 31.579.

COMMON RAFTER LENGTHS (PEAK TO SIDEWALL)

Running Feet	1:12 Pitch	2:12 Pitch	3:12 Pitch	4:12 Pitch	5:12 Pitch	6:12 Pitch
1	1' 0"	1' 1/8"	1' 3/8"	1' 5/8"	1' 1"	1' 1-3/8"
2	2' 1/8"	2' 3/8"	2' 3/4"	2' 1-1/4"	2' 2"	2' 2-7/8"
3	3' 1/8"	3' 1/2"	3' 1-1/8"	3' 2"	3' 3"	3' 4-1/4"
4	4' 1/8"	4' 5/8"	4' 1-1/2"	4' 2-5/8"	4' 4"	4' 5/8"
5	5' 1/4"	5' 7/8"	5' 1-7/8"	5' 3-1/4"	5' 5"	5' 7-1/8"
6	6' 1/4"	6' 1"	6' 2-1/4"	6' 3-7/8"	6' 6"	6' 8-1/2"
7	7' 1/4"	7' 1-1/8"	7' 2-5/8"	7' 4-1/2"	7' 7"	7' 9-7/8"
8	8' 3/8"	8' 1-3/8"	8' 3"	8' 5-1/4"	8' 8"	8' 11-3/8"
9	9' 3/8"	9' 1-1/2"	9' 3-3/8"	9' 5-7/8"	9' 9"	10' 3/4"
10	10' 3/8"	10' 1-5/8"	10' 3-3/4"	10' 6-1/2"	10' 10"	11' 2-1/8"
11	11' 1/2"	11' 1-7/8"	11' 4-1/8"	11' 7-1/8"	11' 11"	12' 3-5/8"
12	12' 1/2"	12' 2"	12' 4-3/8"	12' 7-3/4"	13' 0"	13' 5"
13	13' 1/2"	13' 2-1/8"	13' 4-3/4"	13' 8-1/2"	14' 1"	14' 6-3/8"
14	14' 5/8"	14' 2-3/8"	14' 8-1/8"	14' 9-1/8"	15' 2"	15' 7-7/8"
15	15' 5/8"	15' 2-1/2"	15' 5-1/2"	15' 9-3/4"	16' 3"	16' 9-1/4"
16	16' 5/8"	16' 2-5/8"	16' 5-7/8"	16' 10-3/8"	17' 4"	17' 10-5/8"
17	17' 5/8"	17' 2-7/8"	17' 6-1/4"	17' 11"	18' 5"	19' 1/8"
18	18' 3/4"	18' 3"	18' 6-5/8"	18' 11-5/8"	19' 6"	20' 1-1/2"
19	19' 3/4"	19' 3-1/8"	19' 7"	20' 3/8"	20' 7"	21' 2-7/8"
20	20' 7/8"	20' 3-3/8"	20' 7-3/8"	21' 1"	21' 8"	22' 4-3/8"
21	21' 7/8"	21' 3-1/2"	21' 7-3/4"	22' 1-5/8"	22' 9"	23' 5-3/4"
22	22' 7/8"	22' 3-5/8"	22' 8-1/8"	23' 2-1/4"	23' 10"	24' 7-1/8"
23	23' 1"	23' 3-3/4"	23' 8-1/2"	24' 3"	24' 11"	25' 8-5/8"
24	24' 1"	24' 4"	24' 8-7/8"	25' 3-5/8"	26' 0"	26' 10"
25	25' 1"	25' 4-1/8"	25' 9-1/4"	26' 4-1/4"	27' 1"	27' 11-3/8"
26	26' 1-1/8"	26' 4-1/4"	26' 9-1/2"	27' 5"	28' 2"	29' 3/4"
27	27' 1-1/8"	27' 4-1/2"	27' 9-7/8"	28' 5-5/8"	29' 3"	30' 2-1/4"
28	28' 1-1/8"	28' 4-3/4"	28' 10-1/4"	29' 6-1/4"	30' 4"	31' 3-3/4"
29	29' 1-1/4"	29' 4-7/8"	29' 10-5/8"	30' 6-7/8"	31' 5"	32' 5-1/8"
30	30' 1-1/4"	30' 5"	30' 11"	31' 7-1/2"	32' 6"	33' 6-1/2"
31	31' 1-3/8"	31' 5-1/8"	31' 11-3/8"	32' 8-1/8"	33' 7"	34' 7-7/8"
32	32' 1-3/8"	32' 5-1/4"	32' 11-3/4"	33' 8-3/4"	34' 8"	35' 9-1/4"
33	33' 1-1/2"	33' 5-1/2"	34' 1/8"	34' 9-3/8"	35' 9"	36' 10-3/4"
34	34' 1-1/2"	34' 5-3/4"	35' 1/2"	35' 10"	36' 10"	38' 1/4"
35	35' 1-1/2"	35' 5-7/8"	36' 7/8"	36' 10-5/8"	37' 11"	39' 1-5/8"

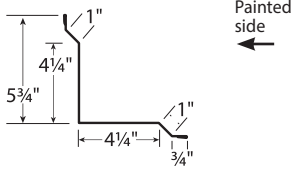
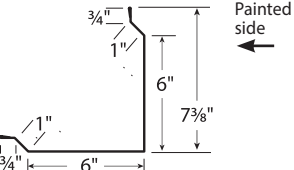
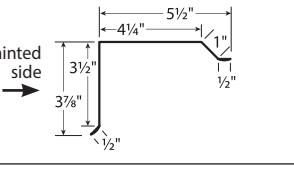
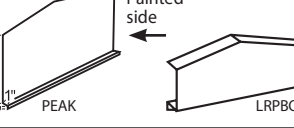
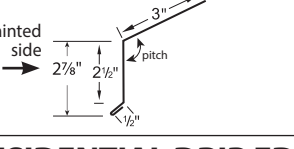
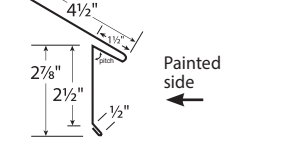
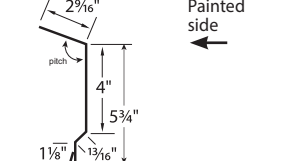
TRIMS

All angles are 90° or 45° unless otherwise noted. All trims are 29 gauge unless otherwise specified. See page 5 for color codes.

	PART #	LENGTH	GIRTH	NOTES	
RIDGE CAP 	RCP(color)	10'6"	13.75"	Recommended 6:12 or less Recommended all pitches Specify pitch	
	RC2(color)	10'2"	20.75"		
RESIDENTIAL RIDGE CAP 	RRCP(color)	10'2"	17"	Specify pitch	
FORMED RIDGE CAP 	FRCP(color)	3'	n/a	Specify pitch up to 4:12	
VALLEY 	VT1(color)	10'2"	19.75"	Specify pitch	
	VT2(color)	10'2"	20.75"	Specify pitch	
RAKE & CORNER 	COR(color)10	10'0"	13"		
COR(color)12	12'0"	13"			
COR(color)14	14'0"	13"			
COR(color)16	16'0"	13"			
COR(color)18	18'0"	13"			
COR(color)20	20'0"	13"			
MINI CORNER 	MCRN(color)10	10'2"	9.5"	26 ga. 26 ga. 26 ga.	
	MCRN(color)12	12'2"	9.5"		
	MCRN(color)14	14'2"	9.5"		
	MCRN(color)16	16'2"	9.5"		
	MCRN9(color)12	12'2"	9.5"		29 ga. long trim available in Michigan City and Hartford plants only.
	MCRN9(color)14	14'2"	9.5"		
MCRN9(color)16	16'2"	9.5"			

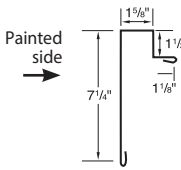
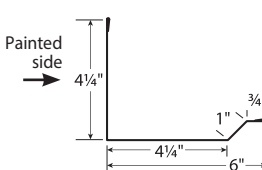
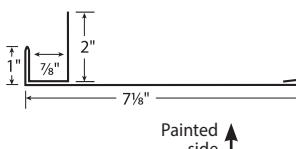
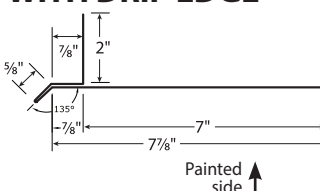
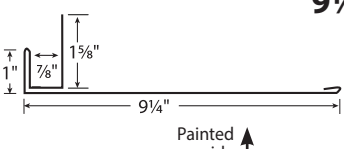
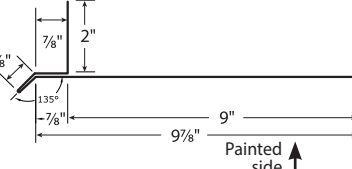
TRIMS

All angles are 90° or 45° unless otherwise noted. All trims are 29 gauge unless otherwise specified. See page 5 for color codes.

	PART #	LENGTH	GIRTH	NOTES
INSIDE CORNER 	IC1(color)	10'2"	13"	
GABLE TRIM 	GT6(color)	10'2"	16.5"	
RESIDENTIAL RAKE 	RRT(color)	10'2"	10.75"	
PEAK PLATE 	PEAK(color) LRPBOXF(color)		n/a	Standard 4:12
RESIDENTIAL EAVE TRIM 	RET(color)	10'2"	6.5"	Specify pitch
RESIDENTIAL DRIP EDGE 	RDC(color)	10'2"	9.5"	Specify pitch 90° pitch if not specified
FASCIA 	FT(color)	10'2"	9"	Specify pitch

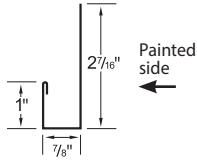
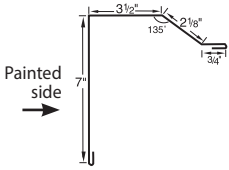
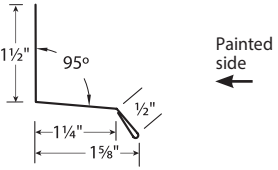
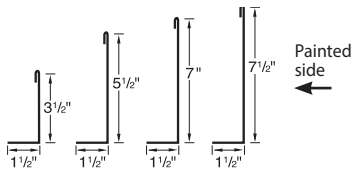
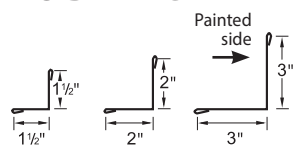
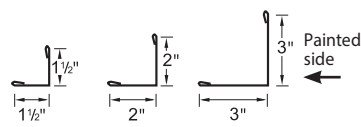
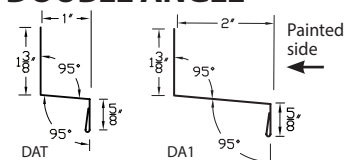
TRIMS

All angles are 90° or 45° unless otherwise noted. All trims are 29 gauge unless otherwise specified. See page 5 for color codes.

	PART #	LENGTH	GIRTH	NOTES
DOOR POST TRIM 	DJ8(color)	10'2"	12.5"	
DOOR EDGE 	DJ10(color)	10'2"	11.25"	
OVERHEAD DOOR JAMB 	7 1/8 OHDJ(color) OHDJ12(color) OHDJ14(color) OHDJ16(color)	10'2" 12'2" 14'2" 16'2"	12.5" 12.5" 12.5" 12.5"	
OVERHEAD DOOR JAMB WITH DRIP EDGE 	7 7/8 OHDJ(color)WD OHDJ12(color)WD OHDJ14(color)WD OHDJ16(color)WD	10'2" 12'2" 14'2" 16'2"	12" 12" 12" 12"	
OVERHEAD DOOR JAMB 	9 1/4 OHDJ9(color) OHDJ916(color)	10'2" 16'2"	14.25" 14.25"	
OVERHEAD DOOR JAMB WITH DRIP EDGE 	9 7/8 OHDJ9(color)WD OHDJ916(color)WD	10'2" 16'2"	14" 14"	

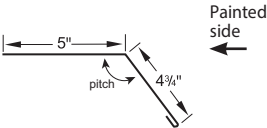
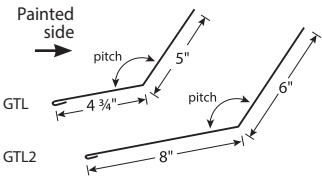
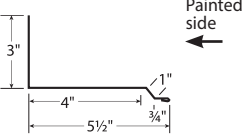
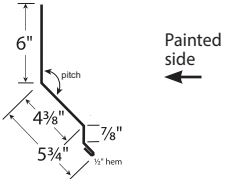
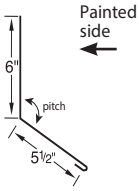
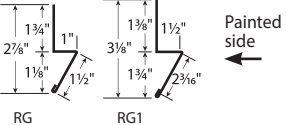
TRIMS

All angles are 90° or 45° unless otherwise noted. All trims are 29 gauge unless otherwise specified. See page 5 for color codes.

	PART #	LENGTH	GIRTH	NOTES
J-TRIM				
	JT(color)	10'2"	4.8125"	
TRACK DOOR JAMB				
	TDJT10(color)	10'2"	14.375"	
	TDJT16(color)	16'2"	14.375"	
WINDOW DRIP CAP				
	WC(color)	10'2"	3.75"	
POST TRIM				
	SA(color)312	10'2"	5.5"	1.5" X 3.5" For hem on other leg, refer to Residential Fascia Trim
	SA(color)512	10'2"	7.5"	
	SA(color)7	10'2"	9"	
	SA(color)712	10'2"	9.5"	
INSIDE ANGLE				
	IA(color)112	10'2"	4"	1.5" X 1.5"
	IA(color)2X2	10'2"	5"	2" X 2"
	IA(color)3X3	10'2"	7"	3" X 3"
SINGLE ANGLE				
	SA(color)112	10'2"	4"	1.5" X 1.5"
	SA(color)2X2	10'2"	5"	2" X 2"
	SA(color)3X3	10'2"	7"	3" X 3"
DOUBLE ANGLE				
	DAT(color)	10'2"	3.5"	
	DA1(color)	10'2"	4.5"	

TRIMS

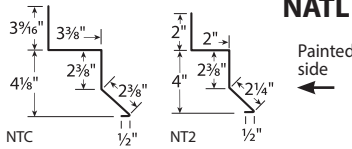
All angles are 90° or 45° unless otherwise noted. All trims are 29 gauge unless otherwise specified. See page 5 for color codes.

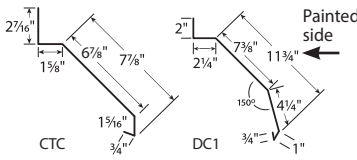
	PART #	LENGTH	GIRTH	NOTES
GAMBREL TRIM UPPER				
	GTU(color)	10'2"	10.25"	Specify pitch
GAMBREL TRIM LOWER				
	GTL(color)	10'2"	10.25"	Specify pitch
	GTL2(color)	10'2"	14.5"	Specify pitch
UNIVERSAL SIDEWALL				
	SF1(color)	10'2"	9.25"	
UNIVERSAL ENDWALL				
	EF(color)	10'2"	12.5"	Specify pitch
ENDWALL FLASHING				
	EFF(color)	10'2"	12"	Specify pitch
RAT GUARD				
	RG(color)	10'2"	4.75"	
	RG1(color)	10'2"	5.5625"	

TRIMS

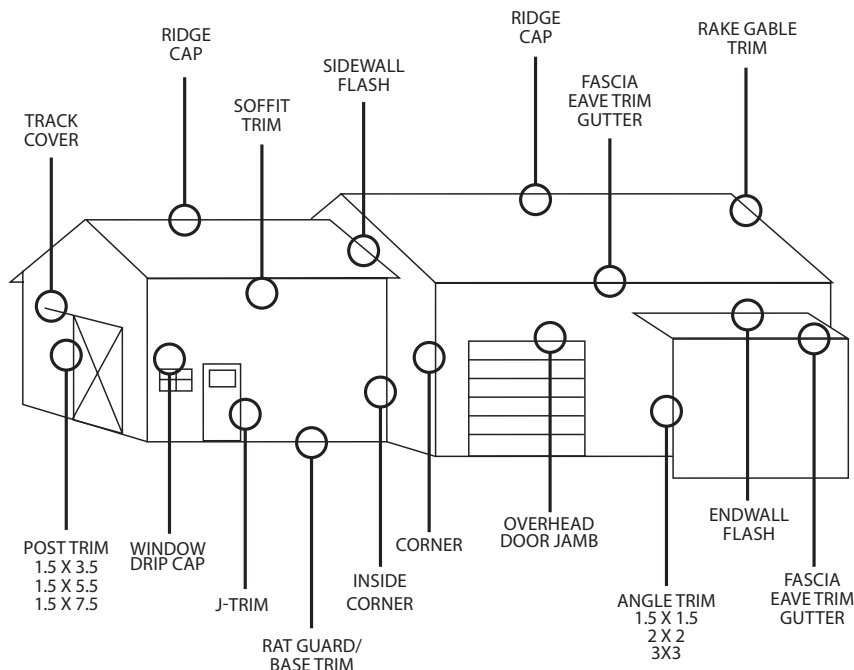
All angles are 90° or 45° unless otherwise noted. All trims are 29 gauge unless otherwise specified. See page 5 for color codes.

	PART #	LENGTH	GIRTH	NOTES
SQUARE BASE 	SBA(color)	10'2"	5"	

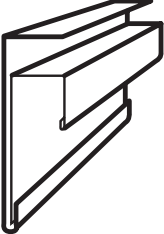
SQUARE TRACK COVER NATL 	NTC(color)	10'2"	12.1875"	Hardware not available
	NT2(color)	10'2"	9.125"	Hardware not available

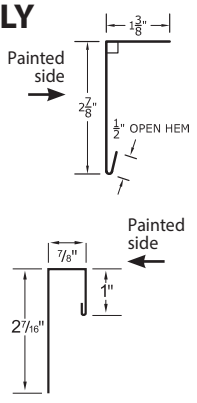
ROUND TRACK COVER 	CTC(color)	10'2"	13"	
	DC1(color)	10'2"	17.625"	

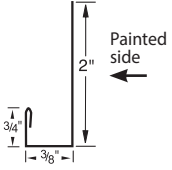
FLAT SHEET 	(color)CQ	10'2"	43"	Additional pallet charge on orders of 10 or more. Order quantity under 10 sheet will be packaged in a roll.
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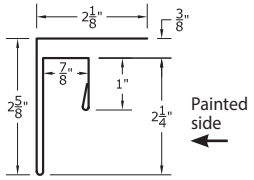


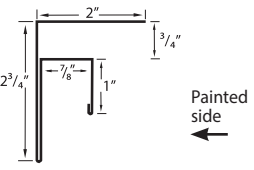
SOFFIT

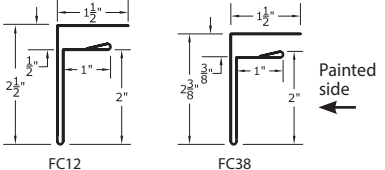
	PART #	LENGTH	GIRTH	NOTES
F&J ASSEMBLY <small>(SFA & JT)</small> 	SOFFIT F ADAPTOR SFA	10'2"	4.75"	Random Color
	J-TRIM JT(color)	10'2"	4.8125"	



SOFFIT J-TRIM 	SJT(color)	10'2"	3.625"	
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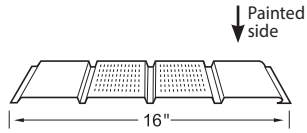
SOFFIT F&J 	SFJ(color)	10'2"	9.375"	
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PANEL LOC PLUS F&J 	PFJ(color)	10'2"	9.125"	
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F CHANNEL 	FC12(color) FC38(color)	10'2" 10'2"	7.5" 7.375"	
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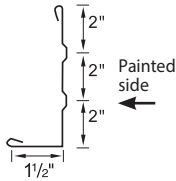
SOFFIT

ALUMINUM SOFFIT



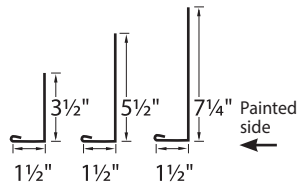
PART #	LENGTH	GIRTH	NOTES
VS(color)12	12'0"	n/a	Vented
SS(color)12	12'0"	n/a	Solid

BEADED FASCIA



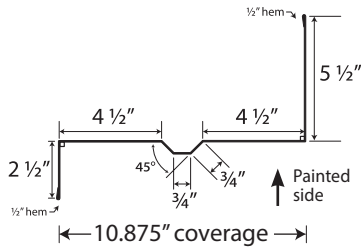
BFT(color)	10'2"	8.25"	Longer lead times may apply.
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RESIDENTIAL FASCIA TRIM

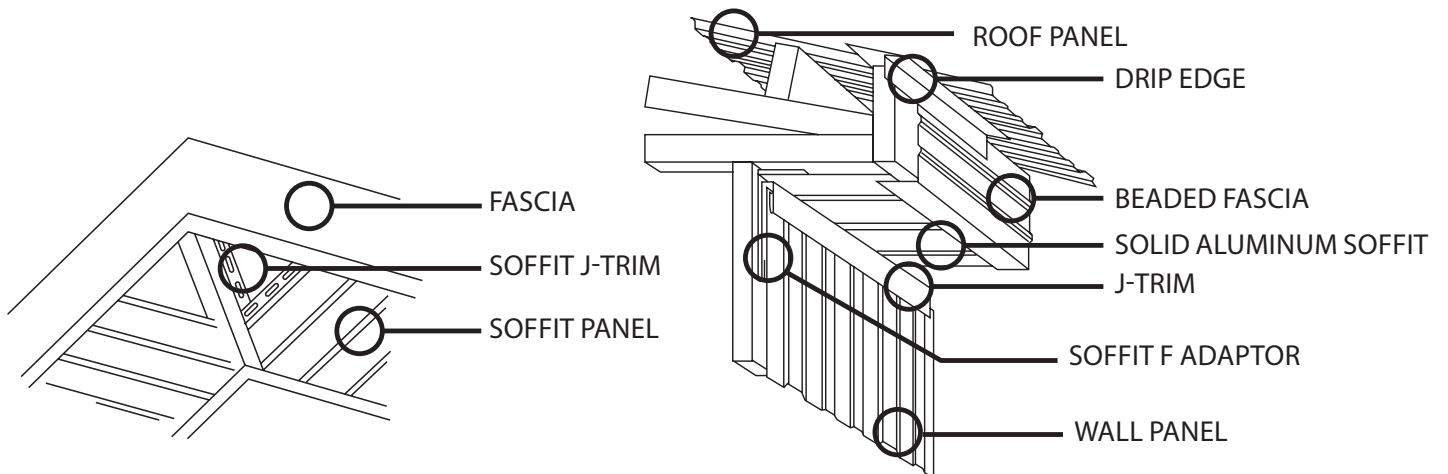


RFT312(color)	10'2"	5.5"
RFT512(color)	10'2"	7.5"
RFT712(color)	10'2"	9.25"

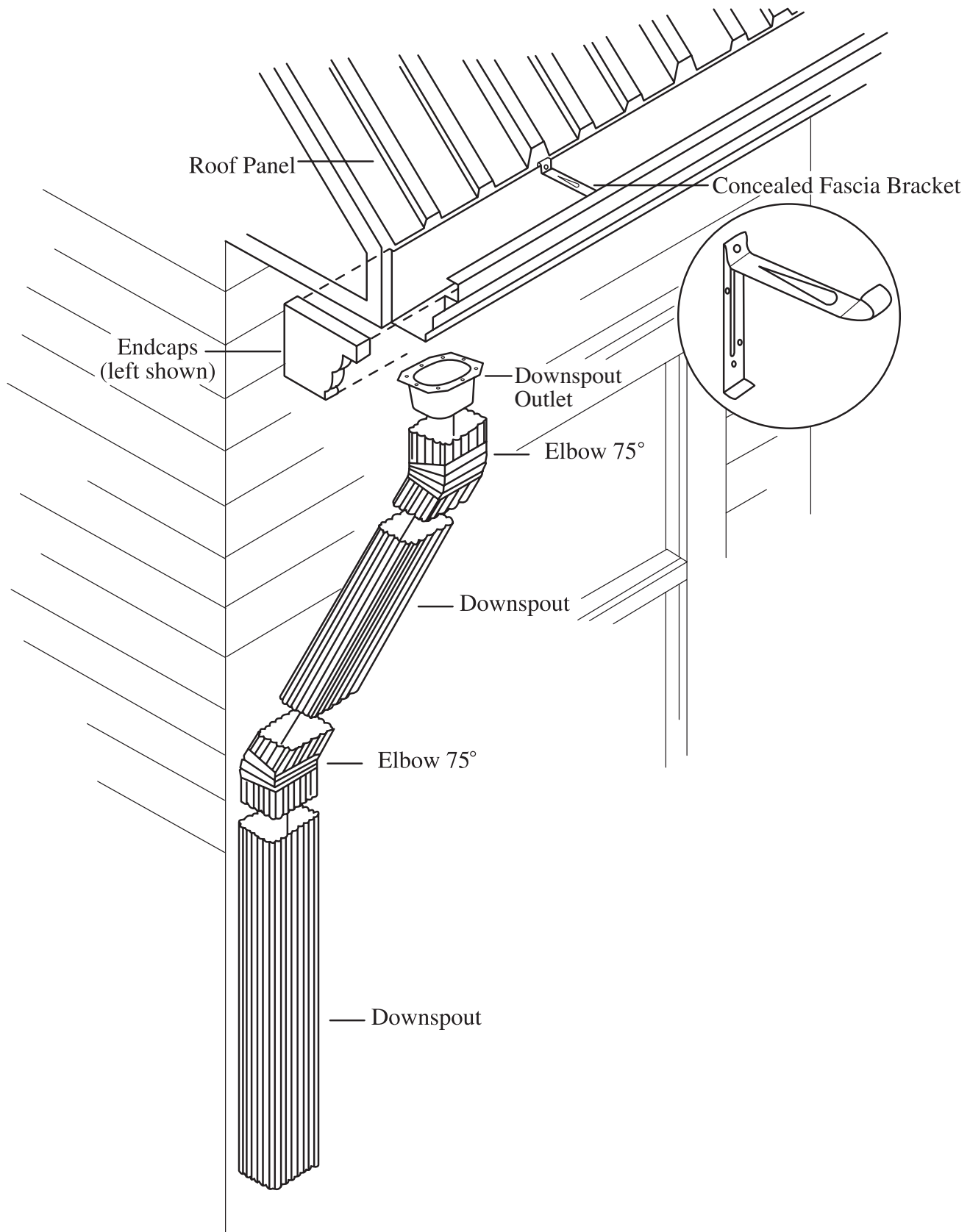
GABLE BASE SOFFIT



GB1(color)	10'2"	20.5"
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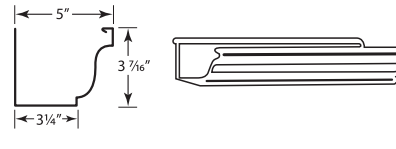

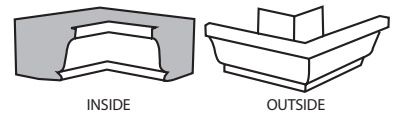
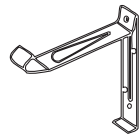
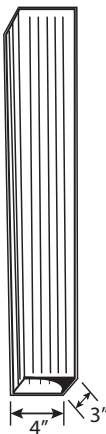
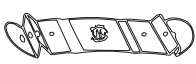

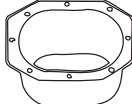


K-5 GUTTERS




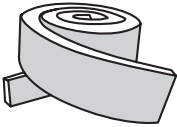
K-5 GUTTERS

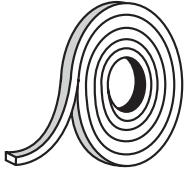
K5 Gutters not available in Galvalume®, Hawaiian or Polar.

GUTTER	PART #	LENGTH	GIRTH	NOTES
	K5G206(color)	20'6"		
GUTTER END CAP  <p>left hand shown</p>	K5GECR(color) K5GECL(color)			Right Left Specify right or left hand
CORNER BOXES  <p>INSIDE OUTSIDE</p>	K5GISQCR Inside K5GOSQCR Outside			White only White only
CONCEALED FASCIA BRACKET 	K5GCFZ Sold separately or 100 per box			
FLUTED 	DOWNSPOUT K6GDS10(color) 10'0" Sold separately or 15 per box			
	DOWNSPOUT STRAP K6GSCB(color) Sold separately or 100 per box			
	DOWNSPOUT ELBOW K6GEA(color) Sold separately or 20 per box			
	DOWNSPOUT OUTLET W/FLANGE K5GOOFZ - Fits inside K5 Gutter Sold separately or 20 per box			

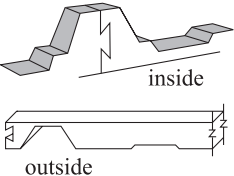
ACCESSORIES

	PART #	LENGTH	WIDTH	THICKNESS
CLOSURE VENT 	CLVLOC (PANEL-LOC)	3'		
	Closure is 1 3/8" tall and may require longer screws for installation. Item may vary from sample shown.			25 per box

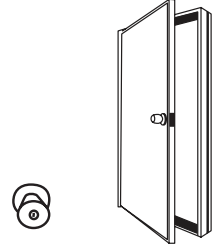
FLEXOVENT 	FLEXOVENT	10'	3"	1 1/2"
				(2) 10' rolls per box

	Part #	LENGTH	WIDTH	THICKNESS	ROLLS PER BOX
UNIVERSAL POLYFOAM 	POLYG with adhesive	25'	1 1/2"	1 1/2"	10

RETRO-EASE 	RETROEASE	300'		
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	PART #	LENGTH
CLOSURES 	CLOUT	(Panel-Loc outside no adhesive) 3'
	CLIN	(Panel-Loc inside no adhesive) 3'
	CLOUTWGLUE	(Panel-Loc outside with adhesive) 3'
	CLINWGLUE	(Panel-Loc inside with adhesive) 3'

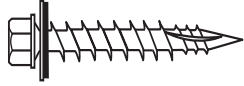
*100 per box

	PART #	SIZE
DOOR SET 	3068DR (Steel Jamb)	3068 38" x 81 3/16"
	KNOB	

KNOBS SOLD SEPARATELY

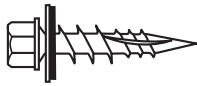
ACCESSORIES

	PART #	COLOR	LENGTH	#PER BAG	#PER BOX
METAL/ WOOD SCREW #10 1/4" head	1(color)MW	all	1"	250	3000
	112(color)MW	all	1 1/2"	250	2500
	2(color)MW	all	2"	250	2000



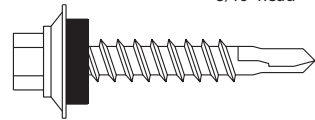
*order in increments of 250pc

STITCH SCREW #12 1/4" head	34(color)ST	all	3/4"	250	3000
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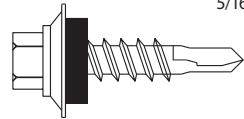
*order in increments of 250pc

METAL/ METAL SCREW #12 5/16" head	114(color)MM	all	1 1/4"	250	2500
	2ZMM	galvanized	2"	250	2000



*order in increments of 250pc

LAP SCREW #14 5/16" head	78(color)LAP	all	7/8"	250	2500
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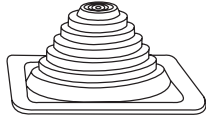
*order in increments of 250pc

SKYLIGHTS	PART #	COLOR	LENGTH	NOTES
	SKY12	White	12'	Fiberglass 5oz sqft weight
For best results, use approved sealant (MRSSKY) and washer (118WASHER)				

WASHER	PART #	COLOR	DESCRIPTION	#PER BAG
	118WASHER	White	1 1/8" outside diameter, 1/4" inside diameter	100
If used for skylights, do not overtighten to allow for expansion of material.				

ACCESSORIES

MASTER PIPE FLASHING

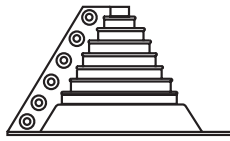


PART #	PIPE SIZE	PART #	PIPE SIZE
MPF	.25" to 5.75"	4SMPF	2.75" to 7"
MPF2	.875" to 4"	6SMPF	4.75" to 10"
MPF4	2.75" to 7"	8SMPF	6.75" to 13.5"
MPF6	4.75" to 10"		
MPF8	6.75" to 13.5"		

MAXIMUM TEMPERATURE 500 DEGREES

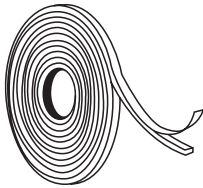
MAXIMUM TEMPERATURE 250 DEGREES

MASTER PIPE FLASHING WITH ZIPPER



MPF1ZIP	.5" - 4" with zipper
MPF2ZIP	4" - 9.25" with zipper

BUTYL TAPE



Part #	LENGTH	WIDTH	THICKNESS	ROLLS PER BOX
BT3/8	45'	3/8"	3/32"	40
Recommended for Panel-Loc				
BTR	40'	7/8"	3/16"	10
BTL	45'	3/4"	3/32"	24

Install between fastener and exposed edge.
Rolls per box may vary by location and vendor. Check with your sales person for details.

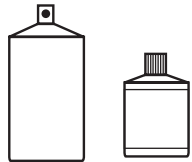
GRAYFLEX



Part #	LENGTH	WIDTH	THICKNESS	ROLLS PER BOX
GRAYFLEX-6	20'	1"	1"	24

For use with hips and valleys.

TOUCH UP PAINT



PART #	SIZE
4(color)SP	0.6oz bottle with brush
12PURSP	12oz spray can (purlin paint)

SEALANT



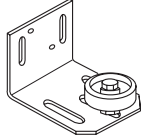
GEO(color)	10.3oz tube	clear, gray, white
MRS(color)	10.3oz tube	call for colors
MRSCLEAR	10.3oz tube	clear
MRSSKY	10.3oz tube	clear

Approved for skylight use.

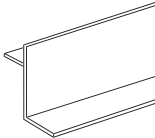
SLIDING DOORS

All sliding door parts may not be available in all locations. Contact your sales consultant for details.

HEAVY DUTY STAY ROLLER



STYRLLR

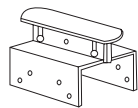


ABRL12

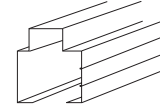
PART #	DESCRIPTION	LENGTH
STYRLLR	Heavy Duty Stay Roller	
ABRL12	Aluminum Bottom Rail for Stay Roller	12'

These two components are designed to go together as a guide system.

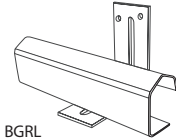
DOOR GUIDE SYSTEM



CGWHD



BRL



BGRL

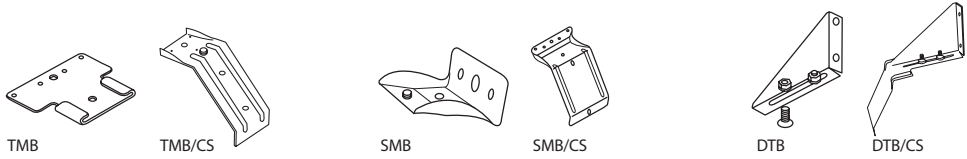
CGWHD	Center Door Guide	
8BRL	Aluminum Bottom Rail for Center Door Guide	8'
10BRL	Aluminum Bottom Rail for Center Door Guide	10'
12BRL	Aluminum Bottom Rail for Center Door Guide	12'
14BRL	Aluminum Bottom Rail for Center Door Guide	14'
16BRL	Aluminum Bottom Rail for Center Door Guide	16'
6BGRL	Bottom Rail Guide	6'
8BGRL	Bottom Rail Guide	8'
10BGRL	Bottom Rail Guide	10'

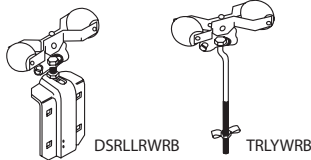
These three components are designed to go together as a guide system. Be sure to also order a Heavy Duty Stay Roller.

SLIDING DOORS

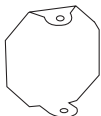
	PART #	DESCRIPTION	LENGTH
	8STRK		8'
	10STRK		10'
	12STRK		12'

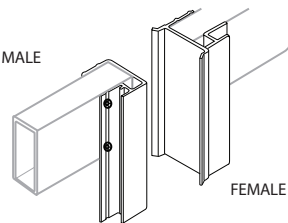
TRACK MOUNTING BRACKETS	PART #	DESCRIPTION	
	TMB	Top Mount Bracket	
	TMB/CS	Top Mount Bracket w/cover support	
	SMB	Side Mount Bracket	
	SMB/CS	Side Mount Bracket w/cover support	
	DTB	Double Mount Bracket	
	DTB/CS	Double Mount Bracket w/cover support	



TROLLEYS	PART #	DESCRIPTION
	DSRLLRWRB	Plate Trolley with roller bearing (includes endcaps)
	TRLYWRB	9.5" Bolt with roller bearing
	2 per bag	

SPLICE CLIP	PART #
	SPLCLP

TRACK END CAPS	PART #
	ENDCAPS sold in pairs

ALUMINUM VERTICAL RAILS	PART #	LENGTH
	10VTRTL	10' AV Male
	12VTRTL	12' AV Male
	14VTRTL	14' AV Male
	16VTRTL	16' AV Male
	10VRTWH	10' HV Female
	12VRTWH	12' HV Female
	14VRTWH	14' HV Female
	16VRTWH	16' HV Female

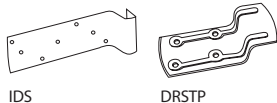
SLIDING DOORS

DOOR PULL



PART #	DESCRIPTION
DRPUL	Available in white only

DOOR STOPS



IDS

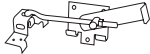
DRSTP



DRSTPWVC

PART #	DESCRIPTION
IDS	Inside Door Stop
DRSTP	Heavy Duty Stop
DRSTPWVC	Adjustable Stop

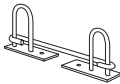
DOOR LOCKS



LTCH



CTRCHLK

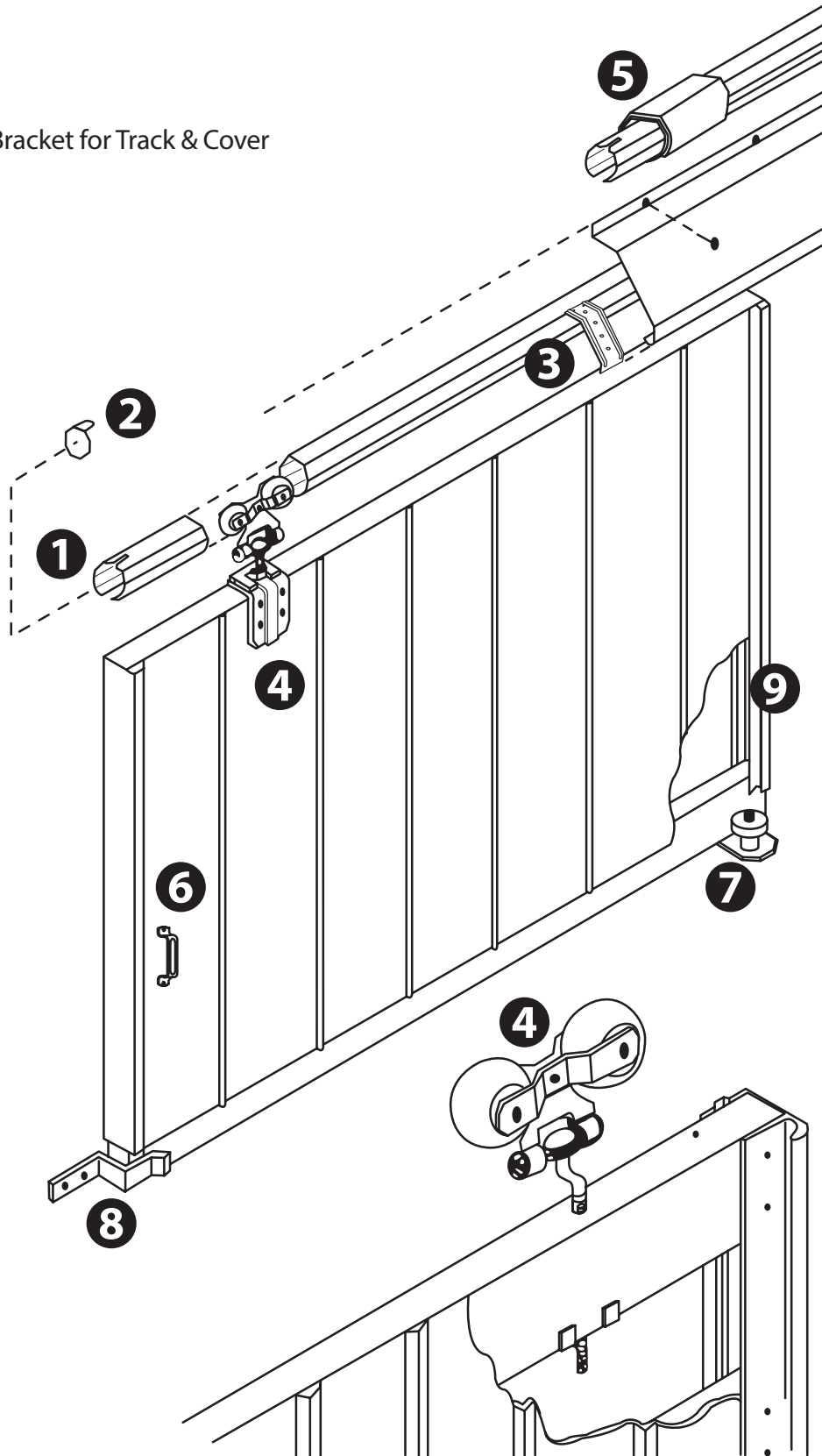


CTRBAR

PART #	DESCRIPTION
LTCH	Jamb Latch (Cam Latch)
CTRCHLK	Center Chain Lock
CTRBAR	Center Bar Lock

SLIDING DOORS

1. Slotted Track
2. End Cap
3. Track Mount Bracket for Track & Cover
4. Trolley
5. Splice Clip
6. Door Pull
7. Stay Roller
8. Door Stop
9. Vertical Rail



SLIDING DOORS

What you HAVE to know to figure a sliding door:

1. What is the door opening width?
2. What is the door height?
3. Is it a single or double door?
4. Do they want track cover?
5. Do they want to attach the door using a side mount or top mount hanger?

What are the minimum items for a sliding door?

1. **Door Track** – You need twice the footage for the door opening. A 10' door will need 20' of track.
2. **Splice Collars** – You need these to connect the track sections together.
3. **Trolleys** – 1 Pair per door is usually enough.
4. **Track Hangers** – Either side mount or top mount (with or without cover supports). Divide the total track footage in half and add one.

What extras can be added?

1. **Endcaps** – One pair per each door opening.
2. **Vertical Rails** – If it is a single door, two male vertical rails are needed. Length is determined by the door height. If it is a double door, three male rails and one female vertical rail are needed.
3. **Latches** – Used to snug the door tight to the jambs when closed.
4. **Center Bar or Chain Latch** – Use either one on a double door to close the door together at the center.
5. **Door Pulls** – One needed per door.
6. **Door Stops** – Used to stop the door from sliding too far.
7. **Bottom guide rail system** – Either use the aluminum bottom rail for guide along with the bottom guide rail, or use the aluminum bottom rail for stayroller along with a stayroller. To figure amount of guide needed, take the length closest to 60% of the door width.
8. **Track Cover** – Used to cover the sliding door track. Combo track cover is used with a round track system. National track cover is used with a square track system. You need to make sure to use the track hangers with cover supports if track cover is used.

Example piece count for a 20' wide door opening, with double doors, 14' tall with track cover, using side mount brackets.

10STRK – 4	SMB/CS – 21	14VRTRL – 3	CGWHD - 1
SPLCLP – 3	DRPUL – 2	14VRTRWH – 1	DRSTPVWC – 2
ENDCAP – 2	LTCH – 2	10BRL – 2	CTC – 4
TRLYWRB – 2	CTRCHLK – 1	6BGRL – 2	STYRLLR – 1



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Every Time.**

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