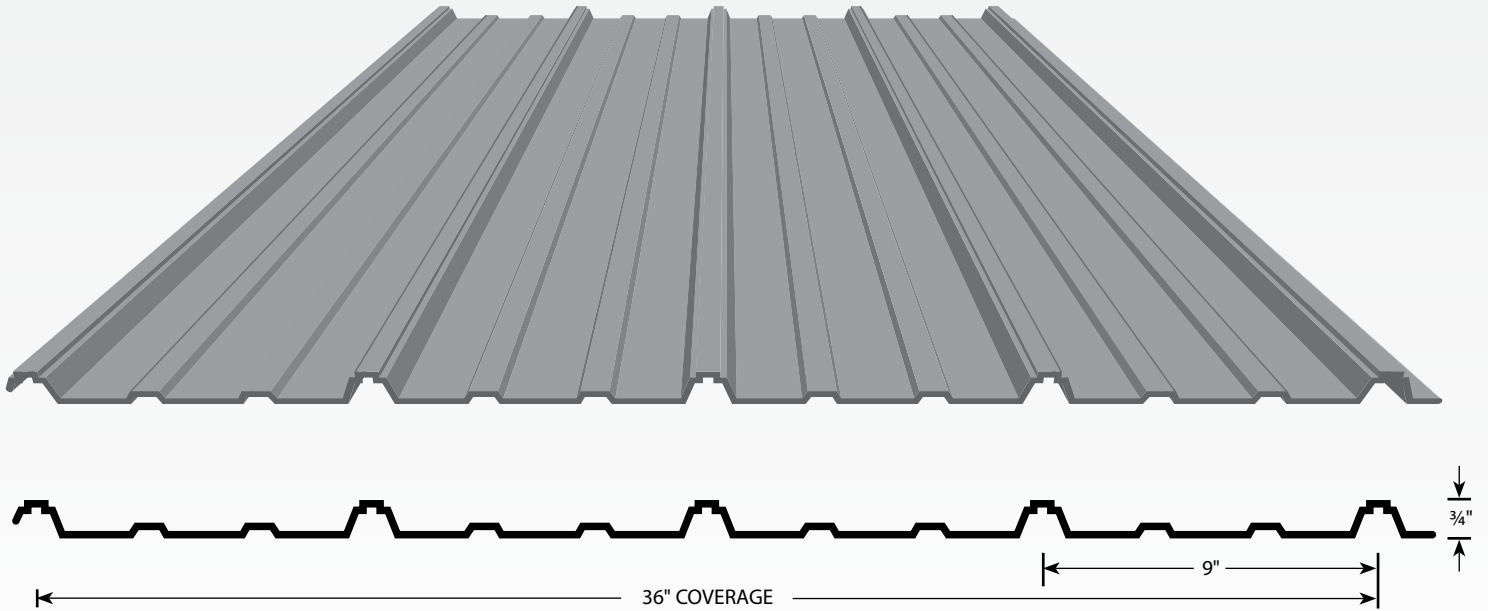


Panel-Loc Plus™

Product Guide

HELPFUL INFORMATION ON PANELS, TRIMS, GUTTERS AND ACCESSORIES



OUR MISSION

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.®

INDEX

Panel and Color Codes 5

Fastener Spacing..... 6

Section Properties / Wind Loads..... 7

Delivery / Staging / Storage / Handling 8

Cutting / Drilling / Siphon Groove 9

Converting Pitch to Degree 10

Square Conversions..... 11

Trim 12-17

Soffit..... 18-19

Gutters 20-21

Accessories 22-25

Sliding Door 25-29

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, color, and length codes below to create the item you need.

Panel example: Panel-Loc Plus™ Ultra Rustic = HRR+. **26 ga. trim example:** 14'2" Ridgecap in Rustic = MRCPR142.

PANEL CODES

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

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

LENGTH CODES

LENGTH	CODE
10'2"	102
12'2"	122
14'2"	142
16'2"	162
18'2"	182
20'4"	204

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

PANEL-LOC PLUS

Panel-Loc Plus is available in Ultra 26 gauge, Prime 29 gauge, and Standard 29 gauge; in painted or bare Galvalume®. 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.

Bare (unpainted) 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 3/4" Panel-Loc Plus™ is 2 1/2:12. 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.



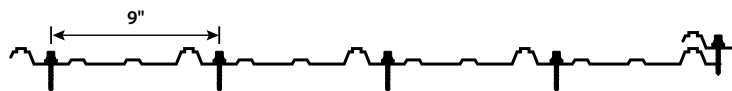
FASTENER SPACING

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

Fastener Pattern at
Eave and Endlap



Fastener Pattern at
Interior of Panel



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

SECTION PROPERTIES

36" WIDE, CSMI PANEL-LOC PLUS™ 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	0.866	80.0	0.0133	0.0220	0.7913	0.0093	0.0198	0.7123
29 PRIME	0.0150	0.704	80.0	0.0110	0.0181	0.6493	0.0073	0.0160	0.5760

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	108.2	108.2	90.1	127.7	131.9	131.9	109.3	157.9
2.5	69.3	61.5	46.2	81.7	84.4	74.6	55.9	101.1
3	48.1	35.6	26.7	56.7	58.6	43.2	32.4	70.2
3.5	35.3	22.4	16.8	41.7	43.1	27.2	20.4	51.6
4	27.1	15.0	11.3	31.9	33.0	18.2	13.7	39.5
4.5	21.4	10.6	7.9	25.2	26.1	12.8	9.6	31.2
5	17.3	7.7	5.8	20.4	21.1	9.3	7.0	25.3
6	12.0	4.5	3.3	14.2	14.7	5.4	4.0	17.5

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	96.0	96.0	96.0	121.0	118.7	118.7	118.7	175.4
2.5	61.4	61.4	60.1	77.5	76.0	76.0	72.8	112.3
3	42.7	42.7	34.8	53.8	52.8	52.8	42.2	78.0
3.5	31.3	29.2	21.9	39.5	38.8	35.4	26.5	57.3
4	24.0	19.6	14.7	30.3	29.7	23.7	17.8	43.9
4.5	19.0	13.7	10.3	23.9	23.5	16.7	12.5	34.6
5	15.4	10.0	7.5	19.4	19.0	12.1	9.1	28.1
6	10.7	5.8	4.3	13.4	13.2	7.0	5.3	19.5

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	112.1	112.1	112.1	168.1	138.7	138.7	138.7	204.9
2.5	71.8	71.8	71.8	107.6	88.8	88.8	88.8	131.1
3	49.8	49.8	49.8	74.7	61.6	61.6	61.1	91.1
3.5	36.6	36.6	31.7	54.9	45.3	45.3	38.5	66.9
4	28.0	28.0	21.3	42.0	34.7	34.4	25.8	51.2
4.5	22.2	19.9	14.9	33.2	27.4	24.1	18.1	40.5
5	17.9	14.5	10.9	26.9	22.2	17.6	13.2	32.8
6	12.5	8.4	6.3	18.7	15.4	10.2	7.6	22.8

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 manufacturers 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.

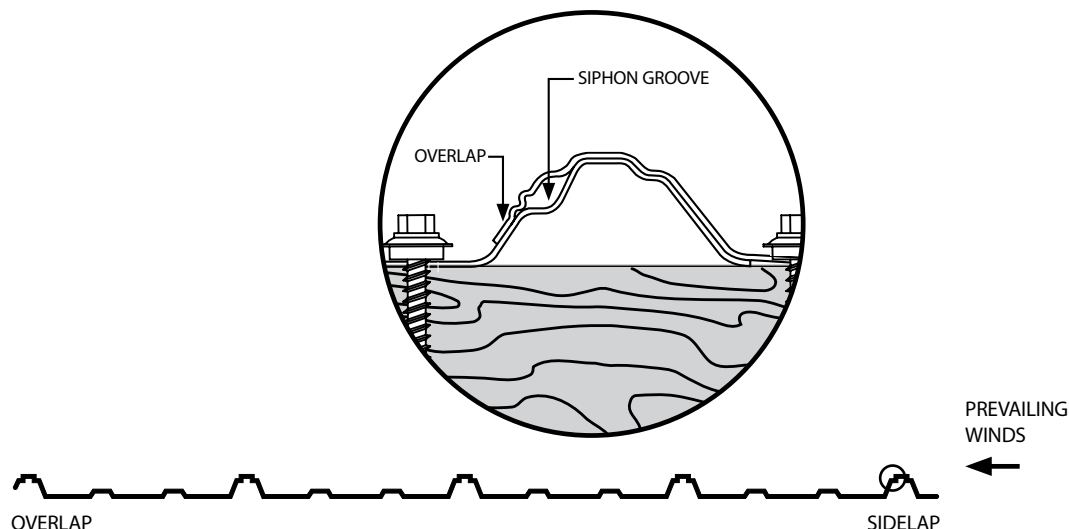
Shavings created by saw cutting or drilling may cause the panel to rust and will void warranties in affected areas.



SIPHON GROOVE

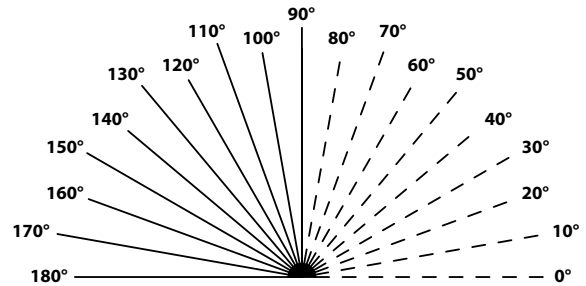
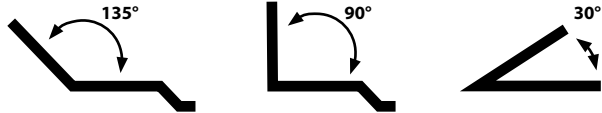
Panel-Loc Plus has two vertical edges, the overlap and the sidelap. The sidelap edge has a specific bend in the last major rib, called a siphon groove. When the overlap edge is installed on top of the sidelap edge, it creates an air gap that prevents water from wicking under the panel.

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

DOUBLE SLOPE PITCHES

Hip, Valley

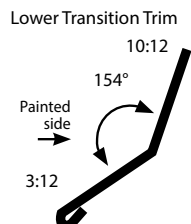
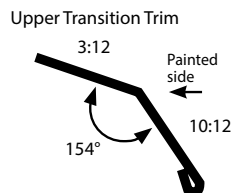
RIDGE CAP

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
94°	99°	104°	108°	112°	116°	120°	123°	126°	129°	132°	135°
173°	167°	160°	154°	148°	143°	138°	134°	130°	126°	123°	120°
170°	161°	152°	143°	135°	127°	120°	113°	106°	100°	95°	90°

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.



LOWER 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°

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

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.

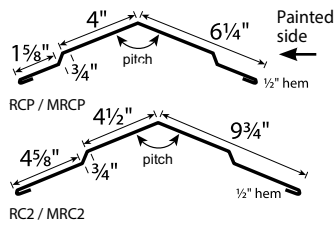
COMMON RAFTER LENGTHS (PEAK TO SIDEWALL)

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

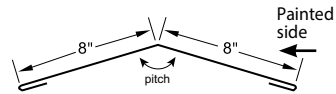
All angles are 90° or 45° unless otherwise noted. See page 5 for color and length codes.

RIDGE CAP



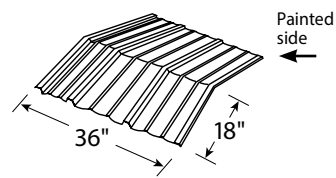
PART #	LENGTH	GIRTH	GAUGE	NOTES	
RCP(color)	10'6"	13.75"	29 ga.	Specify pitch.	Recommended for 6:12 or less.
MRCP(color)(length)	varies	13.75"	26 ga.	Specify pitch.	
RC2(color)	10'2"	20.75"	29 ga.	Specify pitch.	Recommended for all pitches.
MRC2(color)(length)	varies	20.75"	26 ga.	Specify pitch.	

RESIDENTIAL RIDGE CAP



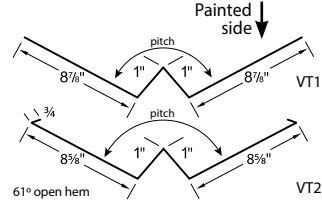
RRCP(color)	10'2"	17"	29 ga.	Specify pitch.
MRRC(color)(length)	varies	17"	26 ga.	Specify pitch.

FORMED RIDGE CAP



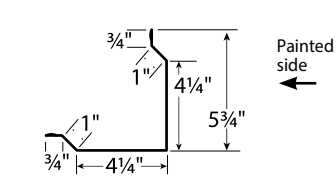
FRCP(color)+	3'	n/a	29 ga.	Specify pitch up to 4:12.
--------------	----	-----	--------	---------------------------

VALLEY



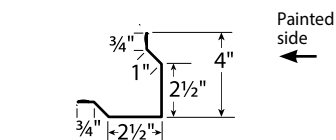
VT1(color)	10'2"	19.75"	29 ga.	Specify pitch.
MVT1(color)(length)	varies	19.75"	26 ga.	Specify pitch.
VT2(color)	10'2"	20.75"	29 ga.	Specify pitch.
MVT2(color)(length)	varies	20.75"	26 ga.	Specify pitch.

RAKE & CORNER



COR(color)10	10'0"	13"	29 ga.
COR(color)12	12'0"	13"	29 ga.
COR(color)14	14'0"	13"	29 ga.
COR(color)16	16'0"	13"	29 ga.
COR(color)18	18'0"	13"	29 ga.
COR(color)20	20'0"	13"	29 ga.
MCOR(color)(length)	varies	13"	26 ga.

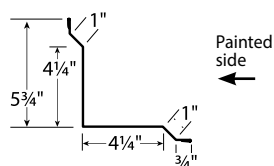
MINI CORNER



MCRN(color)10	10'2"	9.5"	29 ga.
MCRN9(color)12	12'2"	9.5"	29 ga.
MCRN9(color)14	14'2"	9.5"	29 ga.
MCRN9(color)16	16'2"	9.5"	29 ga.
MMCRN(color)10	10'2"	9.5"	26 ga.
MMCRN(color)12	12'2"	9.5"	26 ga.
MMCRN(color)14	14'2"	9.5"	26 ga.
MMCRN(color)16	16'2"	9.5"	26 ga.
MMCRN(color)18	18'2"	9.5"	26 ga.
MMCRN(color)20	20'4"	9.5"	26 ga.

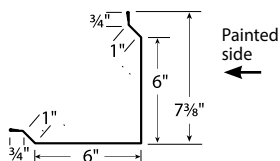
All angles are 90° or 45° unless otherwise noted. See page 5 for color and length codes.

INSIDE CORNER



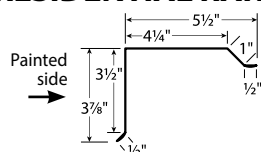
PART #	LENGTH	GIRTH	GAUGE	NOTES
IC1(color)	10'2"	13"	29 ga.	
MIC1(color)(length)	varies	13"	26 ga.	

GABLE TRIM



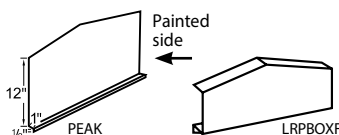
GT6(color)	10'2"	16.5"	29 ga.	
MGT6(color)(length)	varies	16.5"	26 ga.	

RESIDENTIAL RAKE



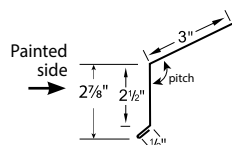
RRT(color)	10'2"	10.75"	29 ga.	
MRRT(color)(length)	varies	10.75"	26 ga.	

PEAK PLATE



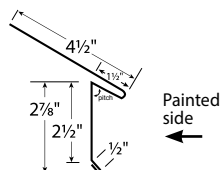
PEAK(color)			29 ga.	
PEAK6(color)			26 ga.	
LRPBOXF(color)			29 ga.	Standard 4:12.
MLRPBOXF(color)			26 ga.	Standard 4:12.

RESIDENTIAL EAVE TRIM



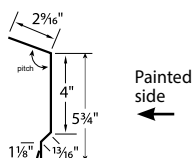
RET(color)	10'2"	6.5"	29 ga.	Specify pitch.
MRET(color)(length)	varies	6.5"	26 ga.	Specify pitch.

RESIDENTIAL DRIP EDGE



RDC(color)	10'2"	9.5"	29 ga.	Specify pitch.	90° pitch if not specified.
MRDC(color)(length)	varies	9.5"	26 ga.	Specify pitch.	

FASCIA

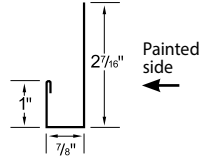


FT(color)	10'2"	9"	29 ga.	Specify pitch.
MFT(color)(length)	varies	9"	26 ga.	Specify pitch.

TRIMS

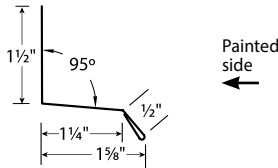
All angles are 90° or 45° unless otherwise noted. See page 5 for color and length codes.

J-TRIM



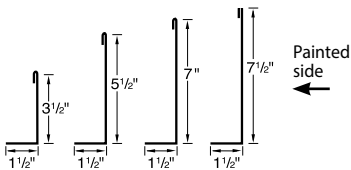
PART #	LENGTH	GIRTH	GAUGE	NOTES
JT(color)	10'2"	4.8125"	29 ga.	
MJT(color)(length)	varies	4.8125"	26 ga.	

WINDOW DRIP CAP



WC(color)	10'2"	3.75"	29 ga.	
MWC(color)(length)	varies	3.75"	26 ga.	

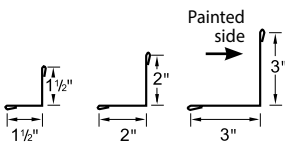
POST TRIM



SA(color)312	10'2"	5.5"	29 ga.	1.5" X 3.5"
MSA312(color)(length)	varies	5.5"	26 ga.	1.5" X 3.5"
SA(color)512	10'2"	7.5"	29 ga.	1.5" X 5.5"
MSA512(color)(length)	varies	7.5"	26 ga.	1.5" X 5.5"
SA(color)7	10'2"	9"	29 ga.	1.5" X 7"
MSA7(color)(length)	varies	9"	26 ga.	1.5" X 7"
SA(color)712	10'2"	9.5"	29 ga.	1.5" X 7.5"
MSA712(color)(length)	varies	9.5"	26 ga.	1.5" X 7.5"

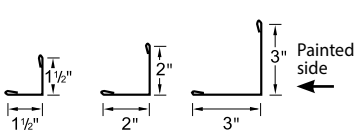
For hem on other leg, refer to Residential Fascia Trim.

INSIDE ANGLE



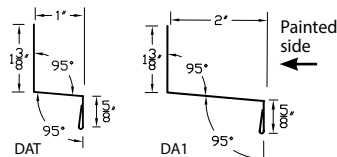
IA(color)112	10'2"	4"	29 ga.	1.5" X 1.5"
MIA112(color)(length)	varies	4"	26 ga.	1.5" X 1.5"
IA(color)2X2	10'2"	5"	29 ga.	2" X 2"
MIA2X2(color)(length)	varies	5"	26 ga.	2" X 2"
IA(color)3X3	10'2"	7"	29 ga.	3" X 3"
MIA3X3(color)(length)	varies	7"	26 ga.	3" X 3"

SINGLE ANGLE



SA(color)112	10'2"	4"	29 ga.	1.5" X 1.5"
MSA112(color)(length)	varies	4"	26 ga.	1.5" X 1.5"
SA(color)2X2	10'2"	5"	29 ga.	2" X 2"
MSA2X2(color)(length)	varies	5"	26 ga.	2" X 2"
SA(color)3X3	10'2"	7"	29 ga.	3" X 3"
MSA3X3(color)(length)	varies	7"	26 ga.	3" X 3"

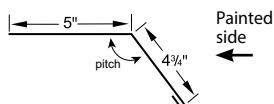
DOUBLE ANGLE



DAT(color)	10'2"	3.5"	29 ga.	
MDAT(color)(length)	varies	3.5"	26 ga.	
DA1(color)	10'2"	4.5"	29 ga.	
MDA1(color)(length)	varies	4.5"	26 ga.	

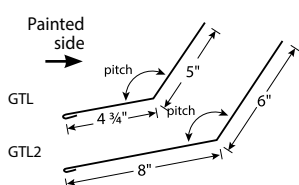
All angles are 90° or 45° unless otherwise noted. See page 5 for color and length codes.

GAMBREL TRIM UPPER



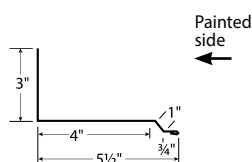
PART #	LENGTH	GIRTH	GAUGE	NOTES
GTU(color)	10'2"	10.25"	29 ga.	Specify pitch.
MGTU(color)(length)	varies	10.25"	26 ga.	Specify pitch.

GAMBREL TRIM LOWER



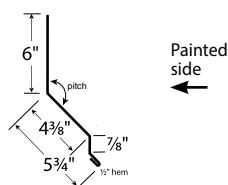
GTL(color)	10'2"	10.25"	29 ga.	Specify pitch.
MGTU(color)(length)	varies	10.25"	26 ga.	Specify pitch.
GTL2(color)	10'2"	14.5"	29 ga.	Specify pitch.
TT2(length)(color)	varies	14.5"	26 ga.	Specify pitch.

UNIVERSAL SIDEWALL



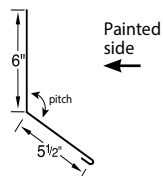
SF1(color)	10'2"	9.25"	29 ga.	
MSF1(color)(length)	varies	9.25"	26 ga.	

UNIVERSAL ENDWALL



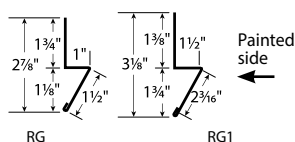
EF(color)	10'2"	12.5"	29 ga.	Specify pitch.
MEF(color)(length)	varies	12.5"	26 ga.	Specify pitch.

ENDWALL FLASHING



EFF(color)	10'2"	12"	29 ga.	Specify pitch.
MEFF(color)(length)	varies	12"	26 ga.	Specify pitch.

RAT GUARD



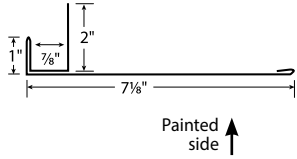
RG(color)	10'2"	4.75"	29 ga.	
MRG(color)(length)	varies	4.75"	26 ga.	
RG1(color)	10'2"	5.5625"	29 ga.	
MRG1(color)(length)	varies	5.5625"	26 ga.	

TRIMS

All angles are 90° or 45° unless otherwise noted. See page 5 for color and length codes.

OVERHEAD DOOR JAMB

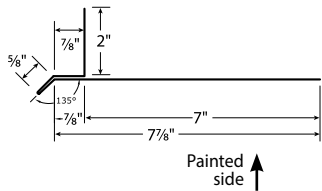
7⁷/₈"



PART #	LENGTH	GIRTH	GAUGE	NOTES
OHDJ(color)	10'2"	12.5"	29 ga.	
OHDJ12(color)	12'2"	12.5"	29 ga.	
OHDJ14(color)	14'2"	12.5"	29 ga.	
OHDJ16(color)	16'2"	12.5"	29 ga.	
MOHDJ(length)(color)	varies	12.5"	26 ga.	

OVERHEAD DOOR JAMB WITH DRIP EDGE

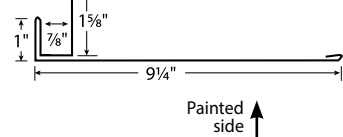
7⁷/₈"



OHDJ(color)WD	10'2"	12"	29 ga.	
OHDJ12(color)WD	12'2"	12"	29 ga.	
OHDJ14(color)WD	14'2"	12"	29 ga.	
OHDJ16(color)WD	16'2"	12"	29 ga.	
MOHDJ(length)(color)WD	varies	12"	26 ga.	

OVERHEAD DOOR JAMB

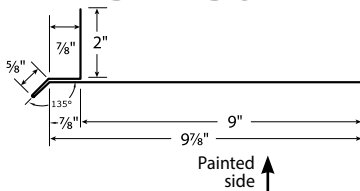
9¹/₄"



OHDJ9(color)	10'2"	14.25"	29 ga.	
OHDJ916(color)	16'2"	14.25"	29 ga.	
MOHDJ910(color)	10'2"	14.25"	26 ga.	
MOHDJ912(color)	12'2"	14.25"	26 ga.	
MOHDJ914(color)	14'2"	14.25"	26 ga.	
MOHDJ916(color)	16'2"	14.25"	26 ga.	
MOHDJ918(color)	18'2"	14.25"	26 ga.	
MOHDJ920(color)	20'4"	14.25"	26 ga.	

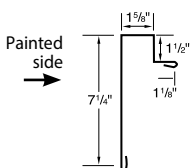
OVERHEAD DOOR JAMB WITH DRIP EDGE

9⁷/₈"



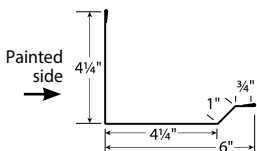
OHDJ9(color)WD	10'2"	14"	29 ga.	
OHDJ916(color)WD	16'2"	14"	29 ga.	
MOHDJ9(color)(length)WD	varies	14"	26 ga.	

DOOR POST TRIM



DJ8(color)	10'2"	12.5"	29 ga.	
MDJ8(color)(length)	varies	12.5"	26 ga.	

DOOR EDGE

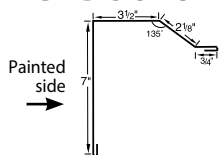


DJ10(color)	10'2"	11.25"	29 ga.	
MDJ10(color)(length)	varies	11.25"	26 ga.	

TRIMS

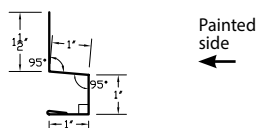
All angles are 90° or 45° unless otherwise noted. See page 5 for color and length codes.

TRACK DOOR JAMB



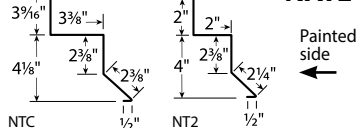
PART #	LENGTH	GIRTH	GAUGE	NOTES
TDJT10(color)	10'2"	14.375"	29 ga.	
TDJT16(color)	16'2"	14.375"	29 ga.	
MTDJT(color)(length)	varies	14.375"	26 ga.	

SQUARE BASE



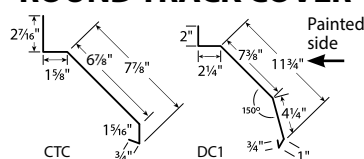
SBA(color)	10'2"	5"	29 ga.	
MSBA(color)(length)	varies	5"	26 ga.	

SQUARE TRACK COVER NATL



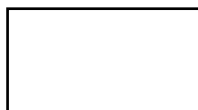
NTC(color)	10'2"	12.1875"	29 ga.	Hardware not available.
MNTC(color)(length)	varies	12.1875"	26 ga.	Hardware not available.
NT2(color)	10'2"	9.125"	29 ga.	Hardware not available.
MNT2(color)(length)	varies	9.125"	26 ga.	Hardware not available.

ROUND TRACK COVER

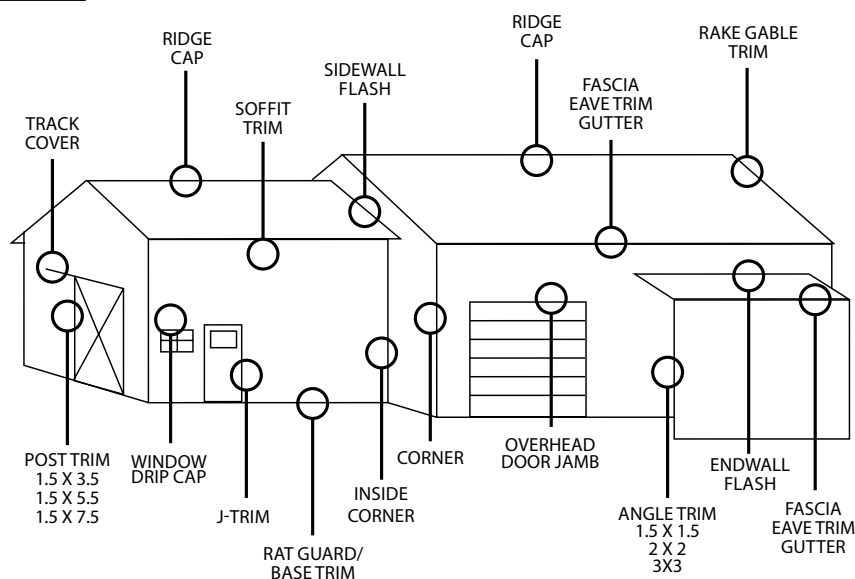


CTC(color)	10'2"	13"	29 ga.	
MCTC(length)(color)	varies	13"	26 ga.	
DC1(color)	10'2"	17.625"	29 ga.	
MDC1(color)(length)	varies	17.625"	26 ga.	

FLAT SHEET



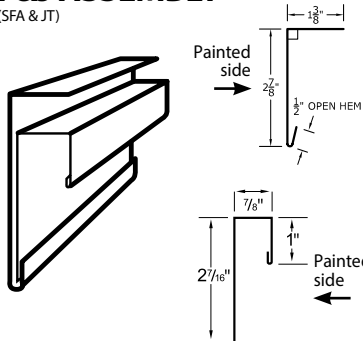
(color)CQ	10'2	43"	29 ga.	Additional pallet charge on orders of 10 or more. Order quantity under 10 sheet will be packaged in a roll.
FS(length)(color)	varies	41.5625"	26 ga.	



SOFFIT

See page 5 for color and length codes.

F&J ASSEMBLY (SFA & JT)

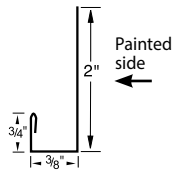


PART #	LENGTH	GIRTH	GAUGE	NOTES
SOFFIT F ADAPTOR SFA	10'2"	4.75"	29 ga.	Random Color.

J-TRIM

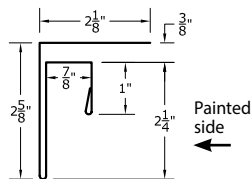
JT(color)	10'2"	4.8125"	29 ga.
MJT(color)(length)	varies	4.8125"	26 ga.

SOFFIT J-TRIM



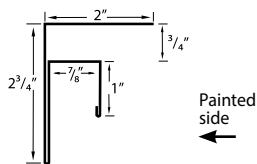
SJT(color)	10'2"	3.625"	29 ga.
MSJT(color)(length)	varies	3.625"	26 ga.

SOFFIT F&J



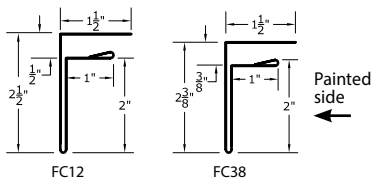
SFJ(color)	10'2"	9.375"	29 ga.
MSFJ(color)(length)	varies	9.375"	26 ga.

PANEL LOC PLUS F&J



PFJ(color)	10'2"	9.125"	29 ga.
MPFJ(length)(color)	varies	9.125"	26 ga.

F CHANNEL

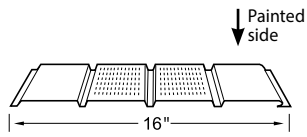


FC12(color)	10'2"	7.5"	29 ga.
MFC12(color)(length)	varies	7.5"	26 ga.
FC38(color)	10'2"	7.375"	29 ga.
MFC38(color)(length)	varies	7.375"	26 ga.

SOFFIT

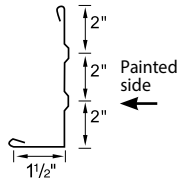
See page 5 for color and length codes.

ALUMINUM SOFFIT



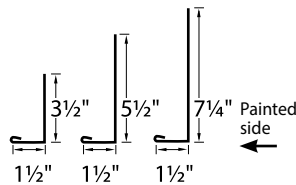
PART #	LENGTH	GIRTH	GAUGE	NOTES
VS(color)12	12'0"	n/a		Vented
SS(color)12	12'0"	n/a		Solid

BEADED FASCIA



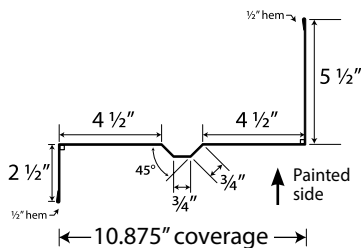
BFT(color)	10'2"	8.25"	29 ga.	
------------	-------	-------	--------	--

RESIDENTIAL FASCIA TRIM

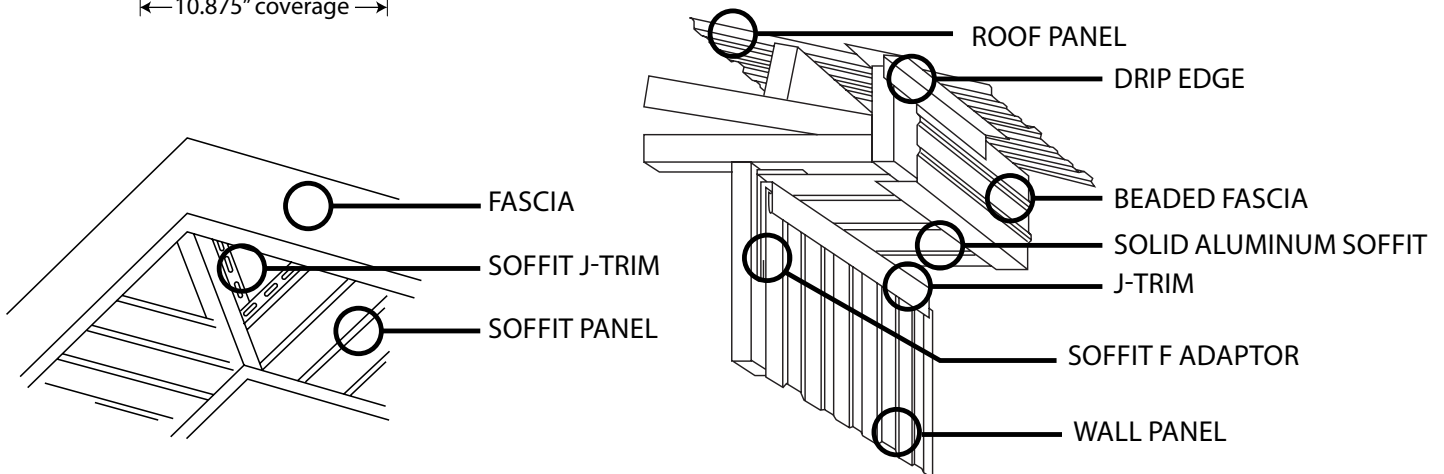


RFT312(color)	10'2"	5.5"	29 ga.	
MRFT312(color)(length)	varies	5.5"	26 ga.	
RFT512(color)	10'2"	7.5"	29 ga.	
MRFT512(color)(length)	varies	7.5"	26 ga.	
RFT712(color)	10'2"	9.25"	29 ga.	
MRFT712(color)(length)	varies	9.25"	26 ga.	

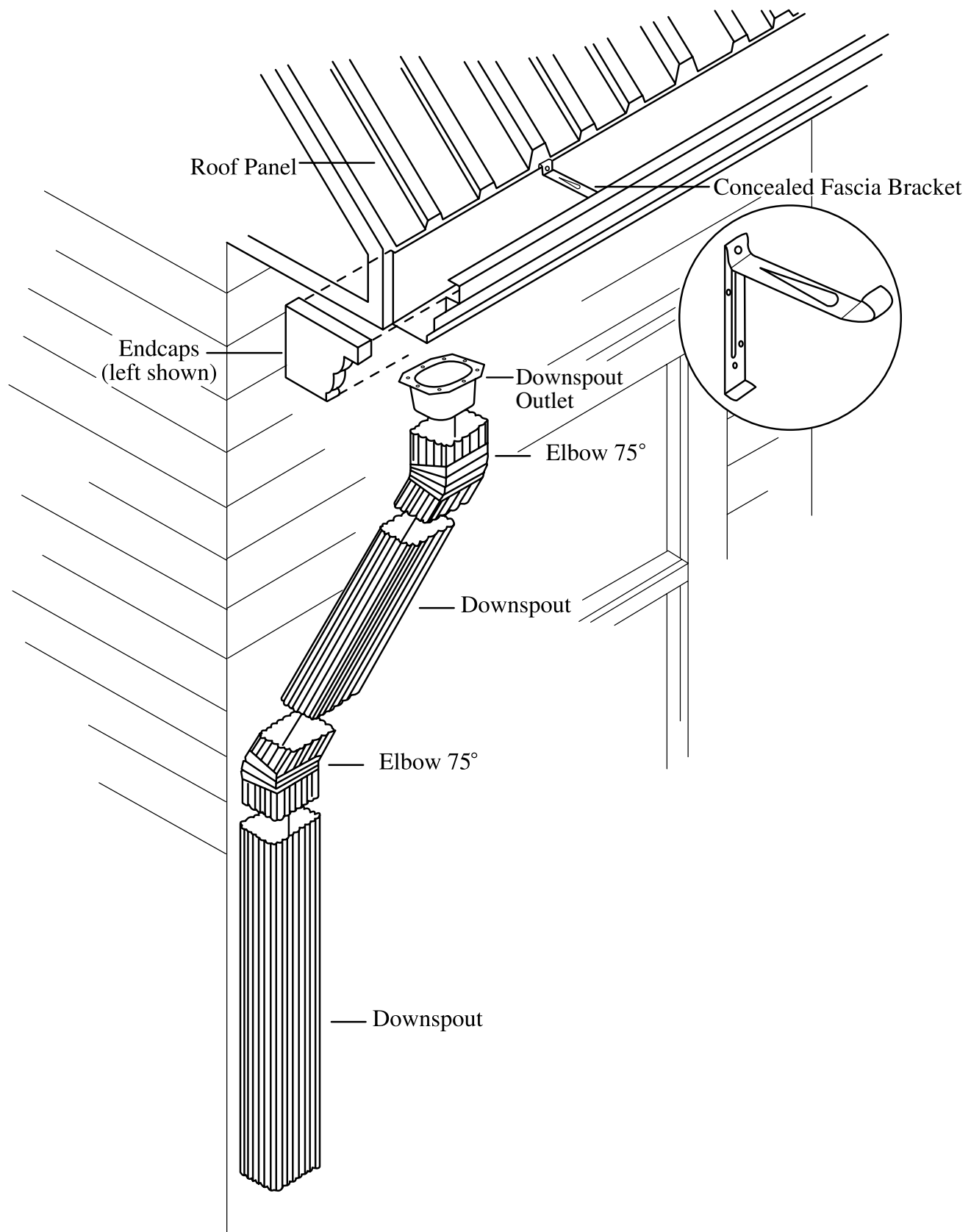
GABLE BASE SOFFIT



GB1(color)	10'2"	20.5"	29 ga.	
MGB1(color)(length)	varies	20.5"	26 ga.	



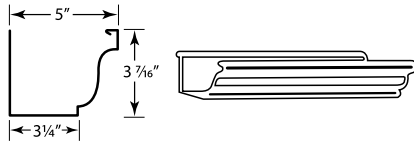
K-5 GUTTERS



K-5 GUTTERS

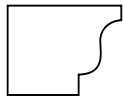
K5 Gutters not available in Galvalume®, Hawaiian or Polar.

GUTTER



PART #	LENGTH	GIRTH	NOTES
K5G206(color)	20'6"		

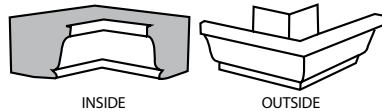
GUTTER END CAP



left hand shown

K5GECR(color)	Right	Specify right or left hand
K5GECL(color)	Left	

CORNER BOXES

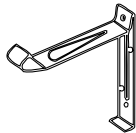


INSIDE

OUTSIDE

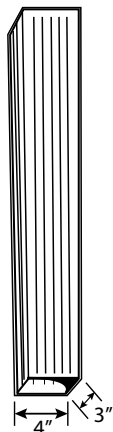
K5GISQCR Inside	White only
K5GOSQCR Outside	White only

CONCEALED FASCIA BRACKET



K5GCFZ
Sold separately or 100 per box

FLUTED



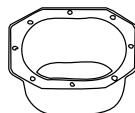
DOWNSPOUT

K6GDS10(color)	10'0"	Sold separately or 15 per box
----------------	-------	-------------------------------



DOWNSPOUT STRAP

K6GSCB(color)	Sold separately or 100 per box
---------------	--------------------------------



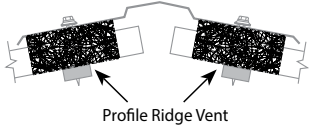
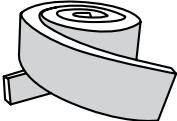
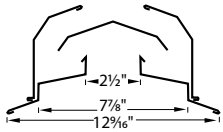
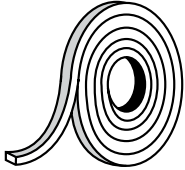
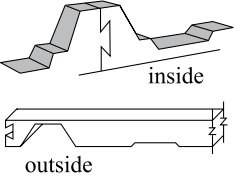
DOWNSPOUT ELBOW

K6GEA(color)	Sold separately or 20 per box
--------------	-------------------------------

DOWNSPOUT OUTLET W/FLANGE

K5GOOFZ - Fits inside K5 Gutter	Sold separately or 20 per box
---------------------------------	-------------------------------

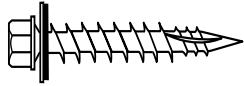
ACCESSORIES

	PART #	LENGTH	WIDTH	THICKNESS
CLOSURE VENT 	CLV+ (PANEL-LOC PLUS)	3'		
	Closure is 1 3/8" tall and may require longer screws for installation. Item may vary from sample shown.			25 per box
PROFILE RIDGE VENT 	PLPVENT	100'	3/4"	1 1/2"
	Net free area 23.3 sq.in/ft			
FLEXOVENT 	FLEXOVENT	10'	3"	1 1/2"
				(2) 10' rolls per box
CONTINUOUS RIDGE VENT 	RLW	10'		
	available in white only			
UNIVERSAL POLYFOAM 	Part # POLYG with adhesive	LENGTH 25'	WIDTH 1 1/2"	THICKNESS 1 1/2"
				ROLLS PER BOX 10
RETRO-EASE 	RETROEASE	300'		
CLOSURES 	PART #	LENGTH		
	CLOUT+	(Panel-Loc Plus outside no adhesive)	3'	
	CLIN+	(Panel-Loc Plus inside no adhesive)	3'	
	CLOUT+GLUE	(Panel-Loc Plus outside with adhesive)	3'	
	CLIN+GLUE	(Panel-Loc Plus inside with adhesive)	3'	
*100 per box				

ACCESSORIES

METAL/ WOOD SCREW #10

1/4" head

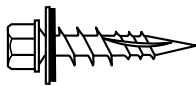


PART #	COLOR	LENGTH	#PER BAG	#PER BOX
1(color)MW	all	1"	250	3000
112(color)MW	all	1 1/2"	250	2500
2(color)MW	all	2"	250	2000
212(color)MW	all	2 1/2"	250	1500
3(color)MW	all	3"	250	1000

*order in increments of 250pc

STITCH SCREW #12

1/4" head

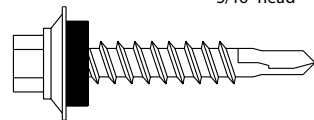


34(color)ST	all	3/4"	250	3000
-------------	-----	------	-----	------

*order in increments of 250pc

METAL/ METAL SCREW #12

5/16" head

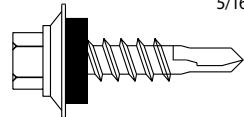


34(color)MM	all	3/4"	250	2500
114(color)MM	all	1 1/4"	250	2500
112(color)MM	White, Hunter, Brilliant, Stone, galvanized	1 1/2"	250	2500
2ZMM	galvanized	2"	250	2000

*order in increments of 250pc

LAP SCREW #14

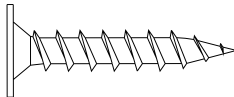
5/16" head



78(color)LAP	all	7/8"	250	2500
--------------	-----	------	-----	------

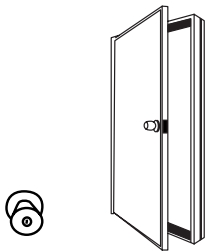
*order in increments of 250pc

LOW PROFILE WAFFER HEAD SCREW



SSR1WOOD	galvanized	1"	250	3000
----------	------------	----	-----	------

DOOR SET



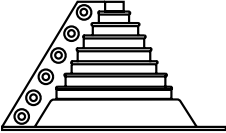
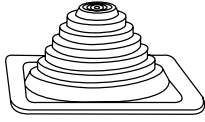
PART #	SIZE
3068DR (Steel Jamb)	3068 38" x 81 3/16"
4068DR (Steel Jamb)	4068 50" x 81 3/16"

KNOB

KNOBS SOLD SEPARATELY

ACCESSORIES

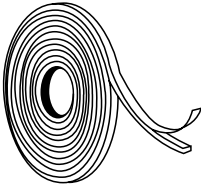
MASTER PIPE FLASHING



with zipper

PART #	PIPE SIZE	DESCRIPTION
MPF	.25" to 5.75"	Square - Max. temperature 250°
MPF2	.875" to 4"	Square - Max. temperature 250°
MPF4	2.75" to 7"	Square - Max. temperature 250°
MPF5	4" to 7"	Square - Max. temperature 250°
MPF6	4.75" to 10"	Square - Max. temperature 250°
MPF7	5.5" to 11.5"	Square - Max. temperature 250°
MPF8	6.75" to 13.5"	Square - Max. temperature 250°
MPF9	9.5" to 20.5"	Square - Max. temperature 250°
3SMPF	.25" to 4"	Square - Max. temperature 500°
4SMPF	2.75" to 7"	Square - Max. temperature 500°
6SMPF	4.75" to 10"	Square - Max. temperature 500°
8SMPF	6.75" to 13.5"	Square - Max. temperature 500°
10SMPF	12" to 28.5"	Square - Max. temperature 500°
MPF1ZIP	.5" - 4"	Square with zipper
MPF2ZIP	4" - 9.25"	Square with zipper

BUTYL TAPE



Part #	LENGTH	WIDTH	THICKNESS	ROLLS PER BOX
BT3/8	45'	3/8"	3/32"	40
Recommended for Panel-Loc Plus				
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

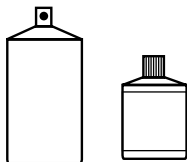


JOINT
SEAL
TAPE

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

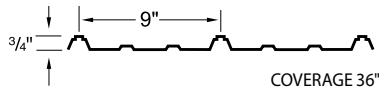


GEO(color)	10.3oz tube	clear, gray, white
MRS(color)	10.3oz tube	call for colors
MRSCLR	10.3oz tube	clear
MRSSKY	10.3oz tube	clear

Approved for skylight use.

ACCESSORIES

SKYLIGHTS



PART #	COLOR	LENGTH	NOTES
SKYPCW8+	White	8'	Polycarbonate
SKYPCC8+	Clear	8'	Polycarbonate
SKYPCW10+	White	10'	Polycarbonate
SKYPCC10+	Clear	10'	Polycarbonate
SKYPCW12+	White	12'	Polycarbonate
SKYPCC12+	Clear	12'	Polycarbonate

For best results, use approved sealant (MRSSKY) and washer (118WASHER)

WASHER

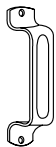


PART #	COLOR	DESCRIPTION	#PER BAG
118WASHER	White	1 1/8" outside diameter, 1/4" inside diameter	100

If used for skylights, do not overtighten to allow for expansion of material.

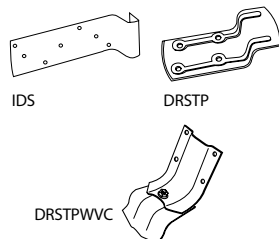
SLIDING DOORS

DOOR PULL



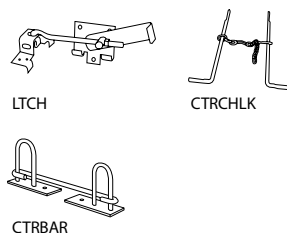
PART #	DESCRIPTION
DRPUL	Available in white only

DOOR STOPS



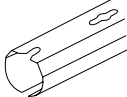
IDS	Inside Door Stop
DRSTP	Heavy Duty Stop
DRSTPWVC	Adjustable Stop

DOOR LOCKS



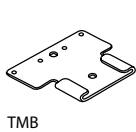
LTCH	Jamb Latch (Cam Latch)
CTRCHLK	Center Chain Lock
CTRBAR	Center Bar Lock

SLIDING DOORS

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

TRACK MOUNTING BRACKETS

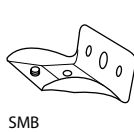
TMB	Top Mount Bracket
TMB/CS	Top Mount Bracket w/cover support
SMB	Side Mount Bracket
SMB/CS	Side Mount Bracket w/cover support
DTB	Double Mount Bracket
DTB/CS	Double Mount Bracket w/cover support



TMB



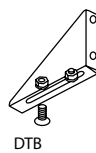
TMB/CS



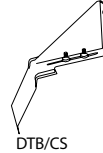
SMB



SMB/CS

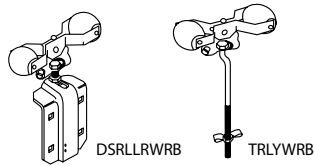


DTB



DTB/CS

TROLLEYS

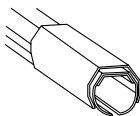


DSRLLRWRB

TRLYWRB

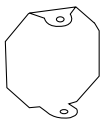
DSRLLRWRB	Plate Trolley with roller bearing (includes endcaps)
TRLYWRB	9.5" Bolt with roller bearing
2 per bag	

SPLICE CLIP



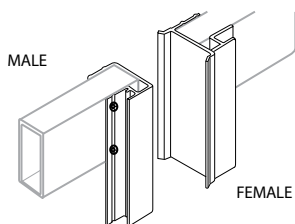
SPLCLP

TRACK END CAPS



ENDCAPS
sold in pairs

ALUMINUM VERTICAL RAILS



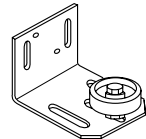
MALE

FEMALE

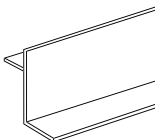
PART #	LENGTH
10VTRL	10' AV Male
12VTRL	12' AV Male
14VTRL	14' AV Male
16VTRL	16' AV Male
10VRTWH	10' HV Female
12VRTWH	12' HV Female
14VRTWH	14' HV Female
16VRTWH	16' HV Female

SLIDING DOORS

HEAVY DUTY STAY ROLLER



STYRLLR

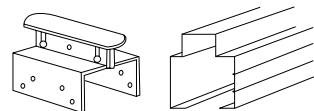


ABRL12

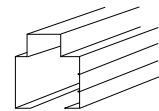
PART #	DESCRIPTION	LENGTH
STYRLLR	Heavy Duty Stay Roller	
ABRL12	Aluminum Bottom Rail for Stay Roller	12'

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

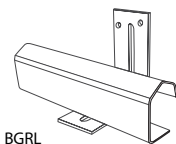
DOOR GUIDE SYSTEM



CGWHD



BRL



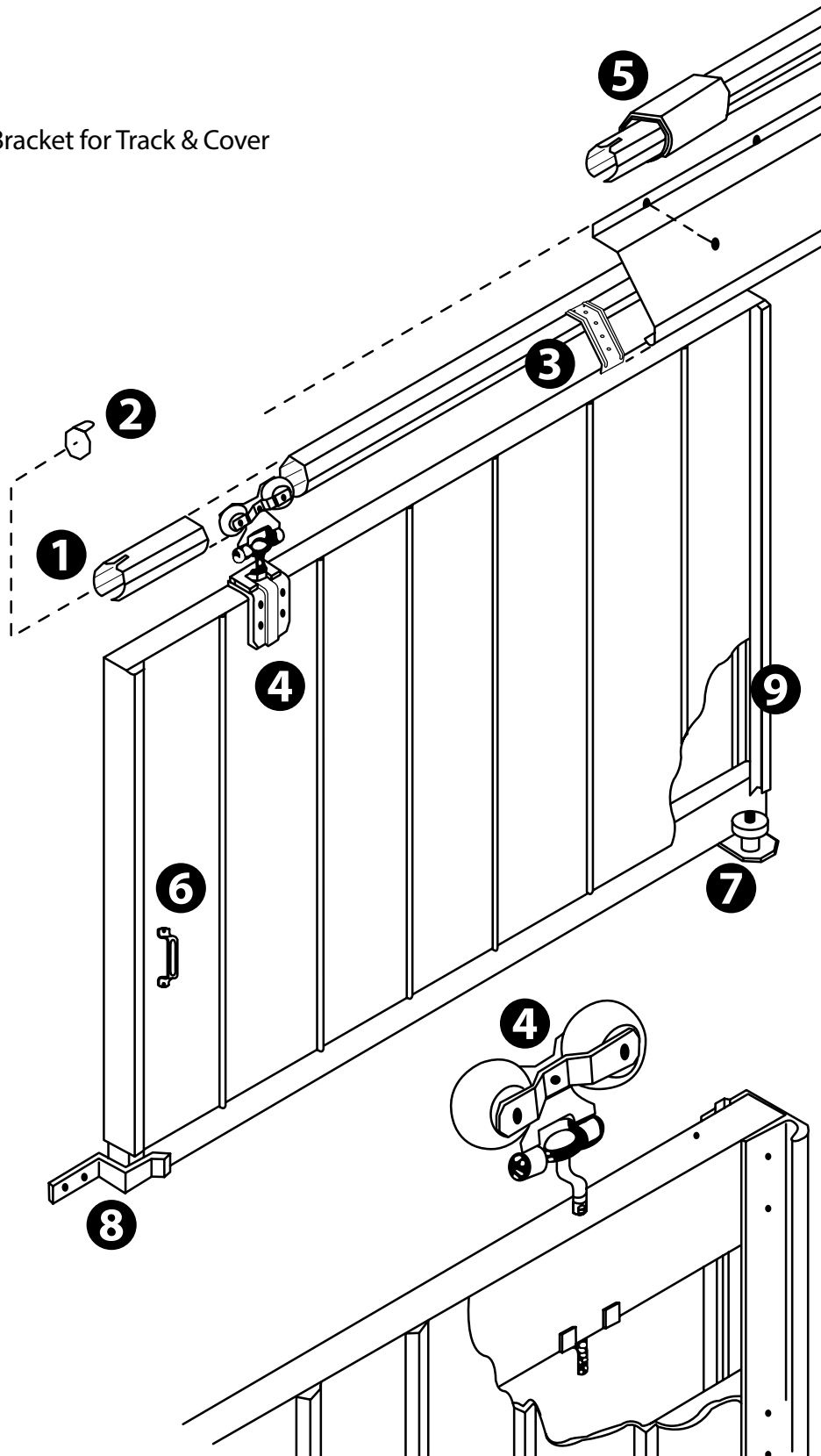
BGRL

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

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	

[illegible]



**Right.
On Time.
Every Time.**

www.CentralStatesMfg.com