

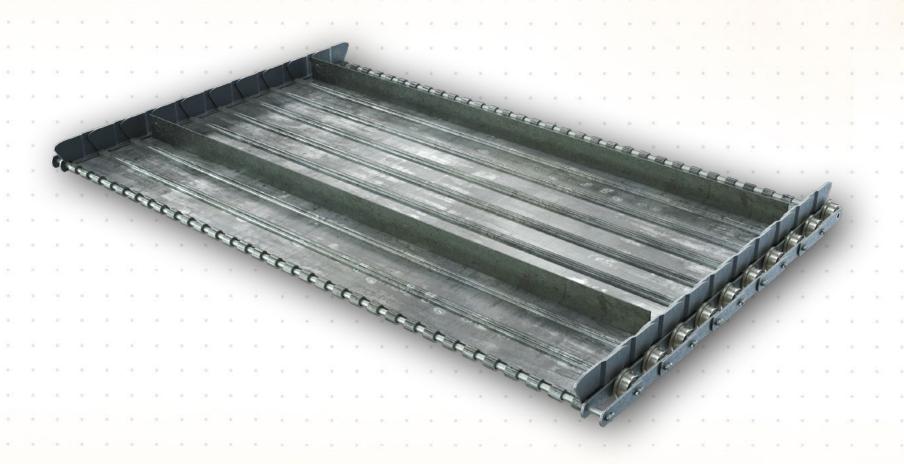


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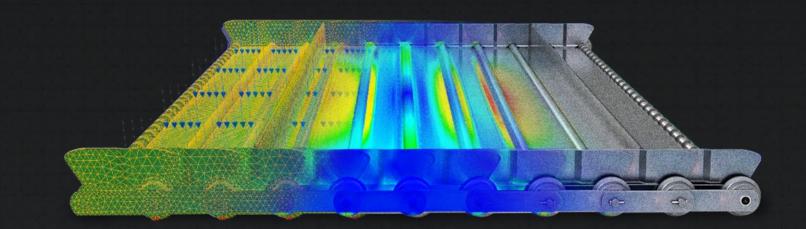
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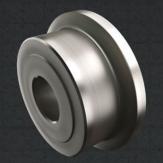
Hinged Steel Replacement Conveyor Belts

Meet our most flexible chain belt made. Designed to mold to your unique systems. Fluent hinged steel conveyor belts are ideal for recycling, ferrous and non-ferrous, mixed solid waste, sheared scrap, refuge and nearly all other applications with less than 10% glass shards.

Hinged steel belts come in 4", 6" and 9" pitch options up to 96" wide. 1/4" - 3/8" Thick Precision formed pans, precision die punched wings, single flanged and sintered steel rollers, solid locking pins and add-on options such as cleats, upgraded chain, C-channel backing, larger rollers and more.



Solutions / Replacement Belt Parts



Hardened Sintered Rollers



Assembled Hinged Steel Section



Heavy Duty C-Channel



C1045 Precision Chain



Hinge Sleeve



1/4" or 3/8" Thick Coped Angle Cleats

Key Features

SOLID MACHINED BUSHINGS

OPTIONAL C-CHANNEL REINFORCEMENTS

DOUBLE ROW SIDE BARS

CUSTOM ANGLE CLEATS

HEAVY DUTY FORMED PANS

HEAVY DUTY IMPACT PADS

COTTER PINS

HARDENED SINTERED STEEL ROLLERS

THROUGH PINS

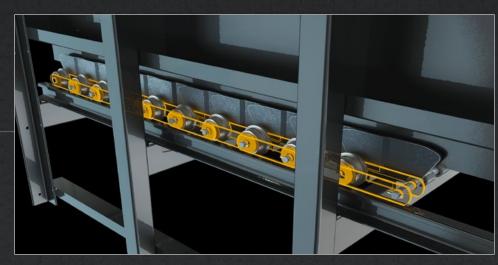
INTERLOCKING SIDE WINGS

HINGE SLEEVES



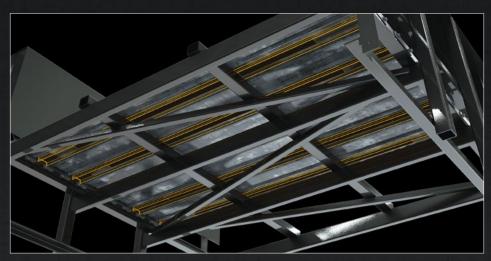
Solid Machined Bushings

0.38" - 1.0" ID x 0.55" - 1.38" OD Long 1018 solid, machined bushing. Carburized, hardened RC55-60, press fit into inner side bars.



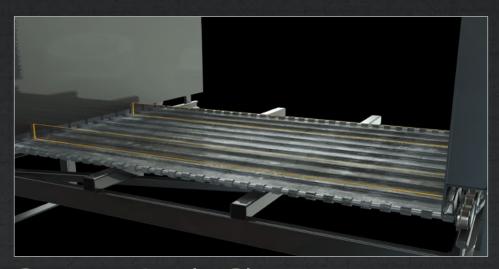
Double Row Side Bars

Standard 2" x 1/4" thick C1045 precision die-punched sidebar. Additions include 2" x $\frac{3}{8}$ " thick and $2-\frac{1}{2}$ " x $\frac{1}{2}$ " thick. 1" x $\frac{5}{32}$ " thick on the smaller pitches.



Optional C-Channel Reinforcements

C 3" x 5# up C 6" x 8.2# heavy duty channel every other pitch.



Custom Angle Cleats

1/4" or 3/8" thick angle cleats in 2", 3" or 4" high options. Bar cleats available.

Key Features

SOLID MACHINED BUSHINGS

OPTIONAL C-CHANNEL REINFORCEMENTS

DOUBLE ROW SIDE BARS

CUSTOM ANGLE CLEATS

HEAVY DUTY FORMED PANS

HEAVY DUTY IMPACT PADS

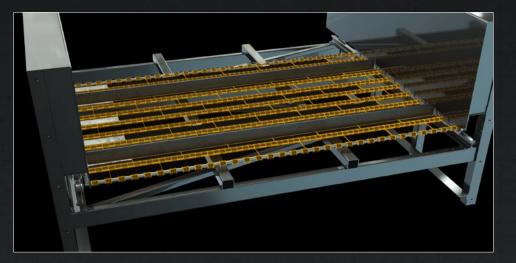
COTTER PINS

HARDENED SINTERED STEEL ROLLERS

THROUGH PINS

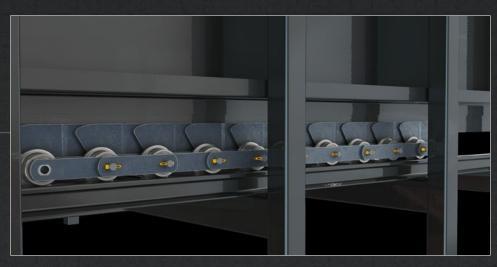
INTERLOCKING SIDE WINGS

HINGE SLEEVES



Heavy Duty Formed Pans

Fluent Conveyors offers $\frac{1}{8}$ ", $\frac{3}{16}$ " or $\frac{1}{4}$ " custom formed hinged pans. Max widths up to 120" wide.



Cotter Pins

Easy maintenance of chain and to secure the rods to the rollers. Solid locking pins available.



Heavy Duty Impact Pads

Custom number of rows, $\frac{1}{4}$ ", $\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{5}{8}$ ", $\frac{3}{4}$ " and 1" thick formed impact shoes every other pitch.



Hardened Sintered Steel Rollers

Flanged and hardened steel rollers in $1-\frac{9}{16}$ ", $1-\frac{3}{4}$ ", $2-\frac{1}{16}$ ", 3", $3-\frac{1}{2}$ ", 4" and 5" diameter options.

Key Features

SOLID MACHINED BUSHINGS

OPTIONAL C-CHANNEL REINFORCEMENTS

DOUBLE ROW SIDE BARS

CUSTOM ANGLE CLEATS

HEAVY DUTY FORMED PANS

HEAVY DUTY IMPACT PADS

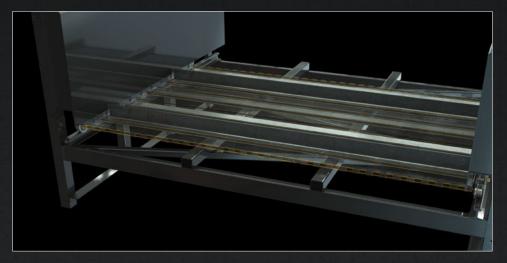
COTTER PINS

HARDENED SINTERED STEEL ROLLERS

THROUGH PINS

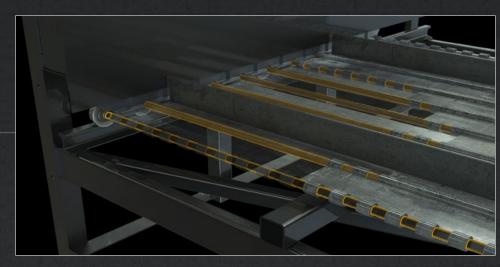
INTERLOCKING SIDE WINGS

HINGE SLEEVES



Through Pins

C1045 CRS 3/4" diameter. Pins end milled flat to lock into outer side bar drilled for 1/4"x1" solid locking pin.



Hinge Sleeve

Engineered structural tubing thicker wall than other conveyor belt manufacturers. While still being interchangeable, it offers superior wear characteristics, and extends the entire width of the belt.



Interlocking Side Wings

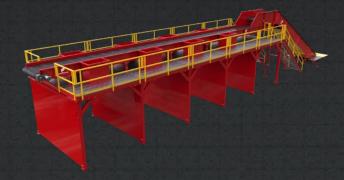
 $1-\frac{1}{2}$ ", $2-\frac{1}{2}$ ", 3", 4" & 6" high precision die formed interlocking offset wing $\frac{1}{8}$ " - $\frac{1}{4}$ " thick wing fully mig welded to hinge to prevent scrap build up.

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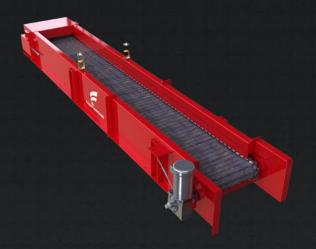
The Fluent Conveyors Product Family



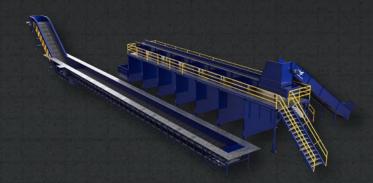
Heavy Duty Roller Chain Conveyors



Standard Sort Systems



Light Duty Roller Chain Conveyors



Custom Sort Systems



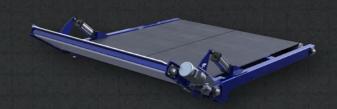
Trough Idler Conveyors



Package Handling Conveyors



Slider Bed Conveyors



Custom Conveyors

Technical Specifications & Belt Modification Options

Please note not all belts can be configured with each option.

Width Options	• 6" • 12" • 18" • 48" • 60" • 72" • Custom widths from 36" up to 120" width with all increments within that range. The 2.5" pitch can go in 3" width increments.
Cleat Options	 2" 4" 3" thick angle. Flat bar cleats also available.
Pitch Options	 2-1/2" 4" 9"
Hinge Pan Thickness	• $\frac{1}{8}$ " • $\frac{1}{4}$ " • $\frac{3}{16}$ "
Side Wing Height	 1-1/2" 2-1/2" 4" 6"
Chain Pull	 6,000# 9,000# 13,000# 25,000# 14,000#
Side Bar Thickness	 1/4" 1/2" 3/8"
Hardened Bushing Sizes	• 0.39"-1.0" ID x 0.55"-1.38" OD
Pin Diameter Options	 3/4" 1"
Roller Diameter Options	• 1-9/16" • 1-3/4" • 3" • 4" • 5"
Custom Modifications	C-Channel, no wings, top impact pads, inverted angle, bar cleats.

Replacement Hinge Belt Roller Chain Conveyor Belt

Step A: Belt Specs (see page 12)

1	Pan Thickness	inches	mm
2	Belt Width (Inside Sealing Wings)	inches	mm
3	Belt Width (Overall Width)	inches	mm
4	Roller Spacing	inches	mm
5	Belt Length	inches	mm

Step C: Side Bar Specs (see page 14)

	P. 181 (8 9 SE) B A 185 (4) A (8)	 ×	(8.)	×	1.00		ia.	+	(4)		-	
10	Chain Pitch	 4	- 1	*		inches		*				mm
	A 181 B B 182 B K 19 (2) a a							*	4			
		10	(0.)			* *						
- 11	Side Bar Width	÷		÷		inches	10					mm
												4 .
					100		19		1/4:			191 191
_ 12	Side Bar Thickness					inches	-			100		mm
4 4										2		2 2
				4			00		(16)			
13	Single Or Double Row					inches						mm

Step B: Roller Specs (see page 13)

6	Roller Diameter	*		*			 inches		# #		mm
7	Flange Roller Diameter (If Applicable)	•			**	•	inches		*		mm
8	Roller Width						inches		*		mm
9	Overall Roller Width (Includes Flanged Roller)						inches			3	mm

Step D: Sealing Wings Specs (see page 15)

			i)	9		6			-		*	*	* *
14	Sealing Wing Height					100	inches						mm
		7.	-	2.5								,	
				-						N.		-	
15	Sealing Wing Thickness	. 10			*	10.7	inches	30.0	*		100		mm

Step E: Cleat Specs (see page 16)

16	Height Of Cleat (Angle Iron Shown)	201 30 inches				* * *		mm)
			-	ř.	191	9	٥	181 182	١
17	Thickness Of Cleat	inches	4		- 8	9	ř	mm	1
7 7	37 1 2 1 1 1 1 1 1 1 1 1 1		100		10	100	4		
	**************************************		-		-		,		
- 18	Total Length	inches			7.	37	1	mm	1
				v. 100				30	
		_//							- 1
			100				*		
19	Offset From Sealing Wing	inches				•		mm	1

Step G: Belt Underside Wear Pad Specs (see page 18)

23	Wear Pad Thickness	inches	mm
24	Wear Pad Quantity (Two Per Pitch Shown)	inches	mm
25	Wear Pad Spacing	inches	mm
26	Wear Pad Location	inches	mm
27	Wear Pad Size	inches	mm

Step F: Belt Underside Support Specs (see page 17)

			-	-		-16		- F	-	4		40	-		
20	Support Type / Size		4		-	4		inches	-		-				mm
	(C-Channel Shown)	1	3	-	4	4	3		+				4	-	
P. 195		16.7		٠	où:	4	v	(a) a (10)		100	5000	4	6	*
21	Support Spacing (Every Other Pitch Shown)	-			-	-		inches	-		-	191			mm
W 196	(Every Other Fitch Showin)		4	ė		0	ì					9			
								(0) 0 0							, to
22	Support Length							inches		9		70			mm
a (e)	90 W SF W W W W W W W W								-			-			

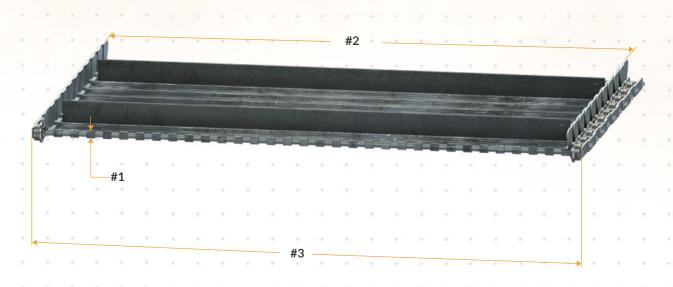
HINGED BELT COMPONENT OVERVIEW

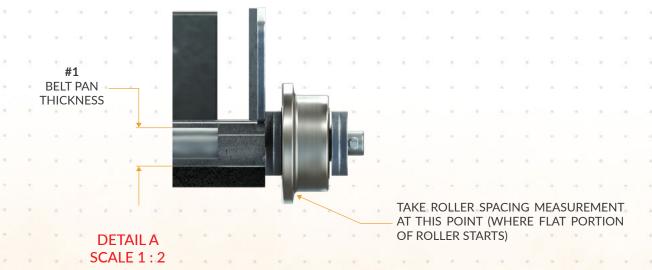


STEP A: BELT SPECS





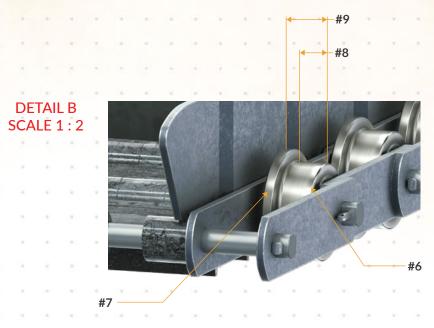


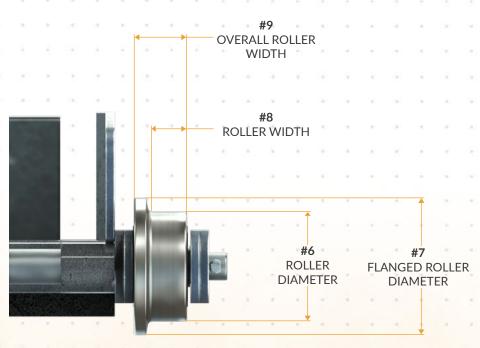


STEP B: ROLLER SPECS



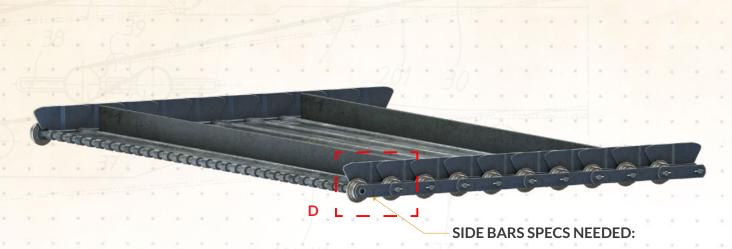
- 6: ROLLER DIAMETER
 7: FLANGED ROLLER DIAMETER
 (IF APPLICABLE)
 8: ROLLER WIDTH
 9: OVERALL ROLLER WIDTH
 (INCLUDES FLANGED ROLLER)





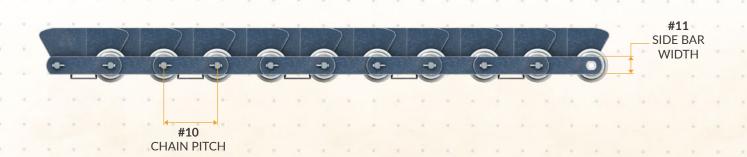
SCALE 1:2

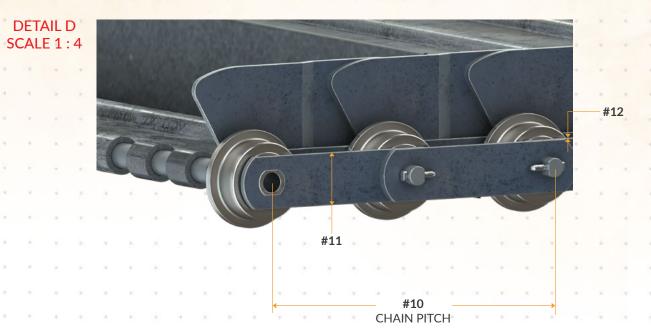
STEP C: SIDE BAR SPECS

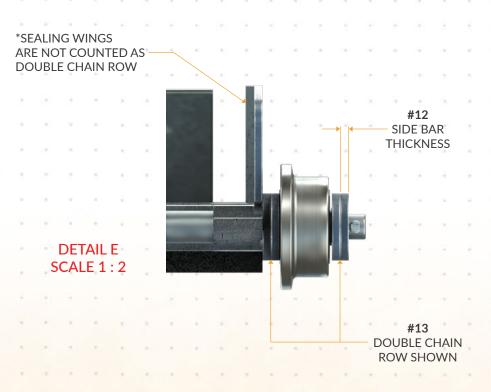


10: CHAIN PITCH 11: SIDE BAR WIDTH 12: SIDE BAR THICKNESS 13: SINGLE OR DOUBLE CHAIN ROW

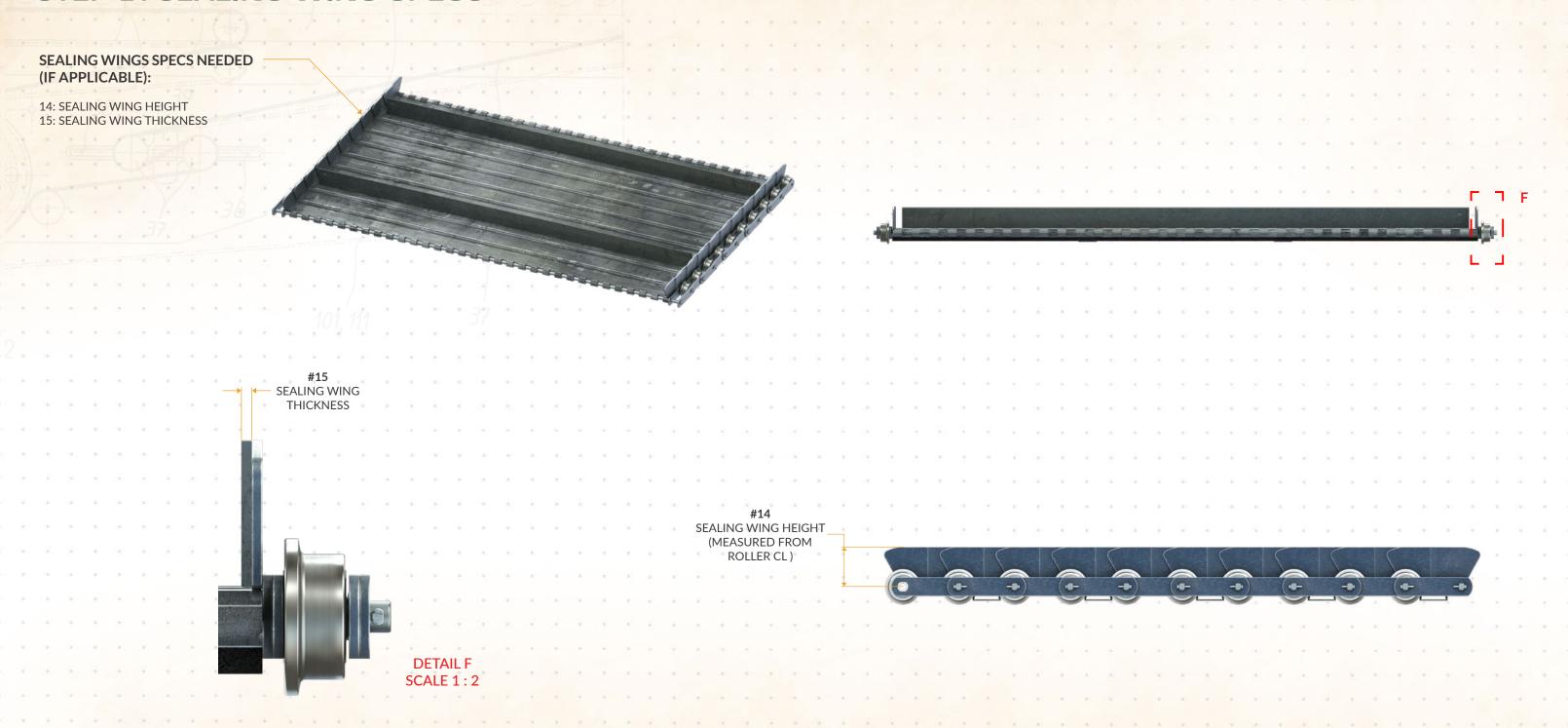




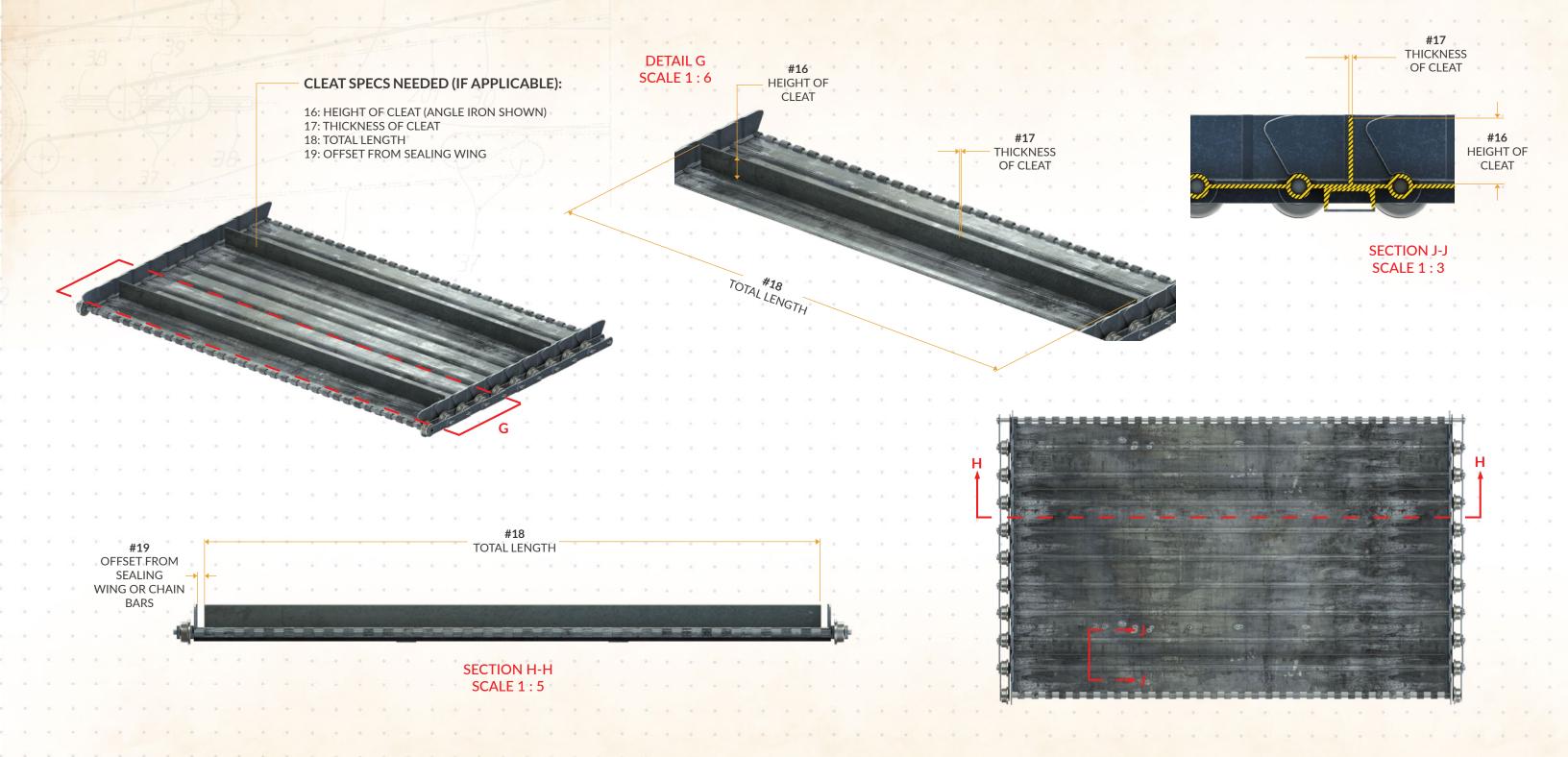




STEP D: SEALING WING SPECS



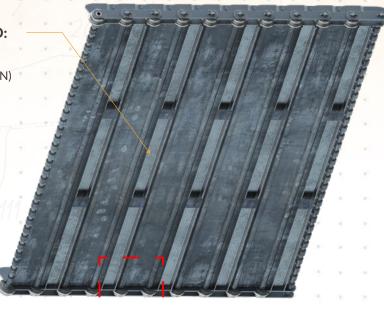
STEP E: CLEAT SPECS



STEP F: BELT UNDERSIDE SUPPORT SPECS

BELT UNDERSIDE SUPPORT SPECS NEEDED:

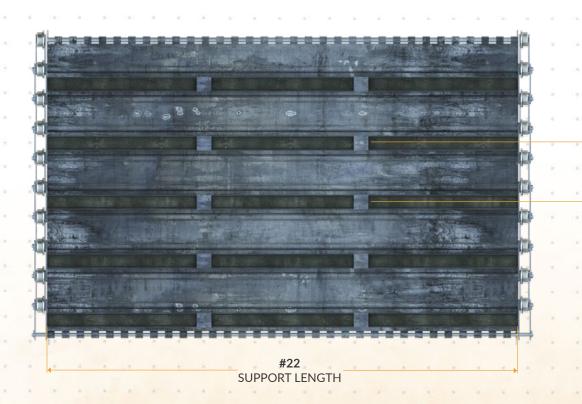
20: SUPPORT TYPE / SIZE (C-CHANNEL SHOWN)
21: SUPPORT SPACING (EVERY OTHER PITCH SHOWN)
22: SUPPORT LENGTH



#20 C-CHANNEL SHOWN (COULD BE ANGLE IRON OR FLAT BAR)



DETAIL K



#21
SUPPORT SPACING
EVERY OTHER

STEP G: BELT UNDERSIDE WEAR PAD SPECS

