2.00" NOM.

(50.8 mm)

2.00" NOM.

(50.8 mm)

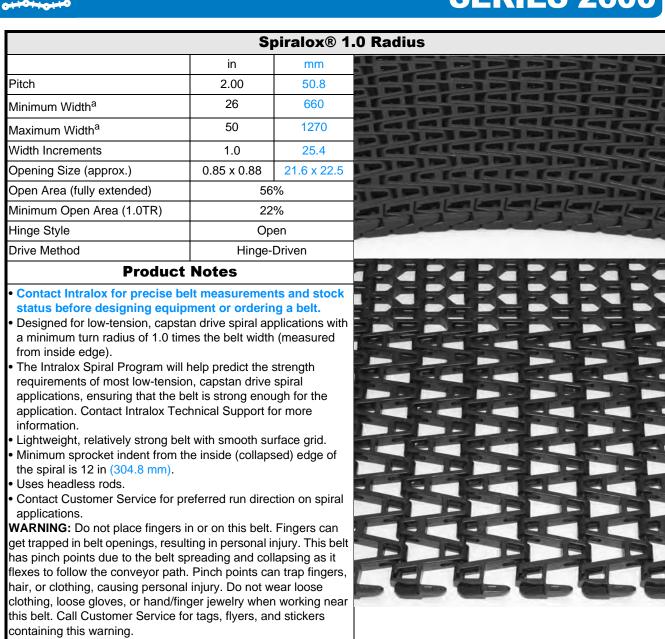
2.00" NOM.

(50.8 mm)

0.59"

(15 mm)





Additional Information

- See "Belt Selection Process" (page 5)
- See "Standard Belt Materials" (page 9)
- See "Special Application Belt Materials" (page 9)
- See "Friction Factors" (page 13)
- a. Contact Intralox Customer Service for more information regarding belt widths under 26 in (660 mm) and over 50 in (1270 mm).

	Belt Data											
Belt Material	Standard Rod Material Ø 0.24 in	BS	Straight Belt Strength	Spira Strer	l Belt ngth ^a	Temperati (contin	W	Belt Weight				
	(6.1 mm)	lb/ft	kg/m	lbs	kg	°F	°C	lb/ft²	kg/m²			
Acetal Acetal		1300	1935	300	136	-50 to 200	-46 to 93	1.46	7.13			
SELM	Acetal	1300	1935	300	136	-50 to 200	-46 to 93	1.24	6.05			

2.00" NOM.

(50.8 mm)

0.295

(7.5 mm)

Published spiral belt strengths and their method of calculation vary among spiral belt manufacturers. Please consult an Intralox Spiral Engineer for accurate comparison of spiral belt strengths.



SERIES 2000								
inimum Width ^a 26 660 aximum Width ^a 44 1118 Addith Increments 1.00 25.4 pening Size (approximate) 0.85 × 0.88 21.6 × 22.5 0 Open Area (fully extended) 56% Minimum Open Area 1. Turn Ratio) 1. Turn Ratio) 1. Minimum Open Area 1. Turn Ratio) 1. Minimum Open Area 1. Turn Ratio) 1. Turn Ratio 1. Open 1. Tive Method 1. Hinge-driven Product Notes Contact Intralox for precise belt measurements and stock status before designing equipment or ordering a belt. Designed for low-tension, capstan drive spiral applications with a minimum turn radius of 1.1 times the belt width (measured from inside edge). Uses headless rods. The Intralox Spiral Program will help predict the strength requirements of most low-tension, capstan drive spiral applications, ensuring that the belt is strong enough for the application. Contact Intralox Technical Support for more information. Lightweight, relatively strong belt with smooth surface grid. Belt openings pass straight through the belt, making the belt easy to clean. Minimum sprocket indent from the inside (collapsed) edge of the spiral is 9.0 in (228.6 mm). Contact Customer Service for preferred run direction on spiral								
	-	1		Jan (47)				
Pitch	2.00	50.8						
Minimum Width ^a	26	660				TEN E		
Maximum Width ^a	44	1118		10.10				
Width Increments	1.00	25.4						
Opening Size (approximate)	0.85 × 0.88	21.6 × 22.5			FIEL			
% Open Area (fully extended)	56	: :%						
% Minimum Open Area (1.1 Turn Ratio)	22	2%						
Hinge Style	Ор	en						
Drive Method	Hinge-	driven						
Product	Notes							
a minimum turn radius of 1.1 time from inside edge). • Uses headless rods. • The Intralox Spiral Program will be requirements of most low-tension applications, ensuring that the beapplication. Contact Intralox Techniformation. • Lightweight, relatively strong belter belt openings pass straight throweasy to clean. • Minimum sprocket indent from the the spiral is 9.0 in (228.6 mm). • Contact Customer Service for preapplications. WARNING: Do not place fingers in get trapped in belt openings, result has pinch points due to the belt sp	nelp predict the nelp predict with smooth surgh the belt, male inside (collapse eferred run direct on or on this belt, ing in personal in preading and collapse predictions and collapse predictions are the nelp predict the nelp predictions are the nelp predic	strength spiral ugh for the or more urface grid. king the belt sed) edge of ction on spiral Fingers can njury. This belt lapsing as it						

Additional Information

this belt. Call Customer Service for tags, flyers, and stickers

- See "Belt Selection Process" (page 5)
- See "Standard Belt Materials" (page 9)
- See "Special Application Belt Materials" (page 9)
- See "Friction Factors" (page 13)

containing this warning.

a. Contact Intralox Customer Service for more information regarding belt widths under 26 in (660mm) and over 44 in (1118mm).

Belt Data											
Belt Material	Standard Rod Material Ø 0.24 in	BS	Straight Belt Strength		l Belt ngth ^a	Temperati (contin	W	Belt Weight			
	(6.1 mm)	lb/ft	kg/m	lbs	kg	°F	°C	lb/ft²	kg/m²		
Acetal	Acetal	1300	1935	300	136	-50 to 200	-46 to 93	1.44	7.03		
SELM	Acetal	1300	1935	300	136	-50 to 200	-46 to 93	1.24	6.05		

2.00" NOM.

0.295" (7.5 mm) 2.00" NOM.

(50.8 mm)

2.00" NOM.

(50.8 mm)

2.00" NOM.

(50.8 mm)

0.59"

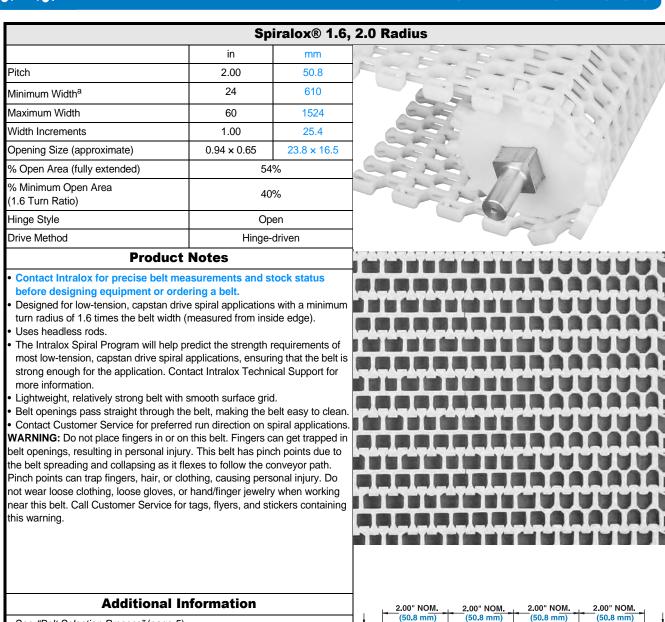
(15 mm)

a. Published spiral belt strengths and their method of calculation vary among spiral belt manufacturers. Please consult an Intralox Spiral Engineer for accurate comparison of spiral belt strengths.

0.59"

(15 mm)





- See "Belt Selection Process" (page 5)
- See "Standard Belt Materials" (page 9)
- See "Special Application Belt Materials" (page 9)
- See "Friction Factors" (page 13)
- $a. \quad \text{Contact Intralox Customer Service for more information regarding belt widths under 24" (610mm)}.$

	Belt Data											
Belt Material	Standard Rod Material Ø 0.24 in	BS	Straight Belt Strength	Spiral Stren		Temperati (contin	_	W	Belt Weight			
	(6.1 mm)	lb/ft	kg/m	lbs	kg	°F	°C	lb/ft²	kg/m²			
Acetal	Acetal	1700	2530	375	170	-50 to 200	-46 to 93	1.41	6.88			
Poylpropylene ^b	Acetal	1500	2232	300	136	34 to 200	1 to 93	1.01	4.93			
SELM	Acetal	1500	2232	300	136	-50 to 200	-46 to 93	1.24	6.05			

0.295

(7.5 mm)

- a. Published spiral belt strengths and their method of calculation vary among spiral belt manufacturers. Please consult an Intralox Spiral Engineer for accurate comparison of spiral belt strengths.
- b. Available in 1.6 Radius only.



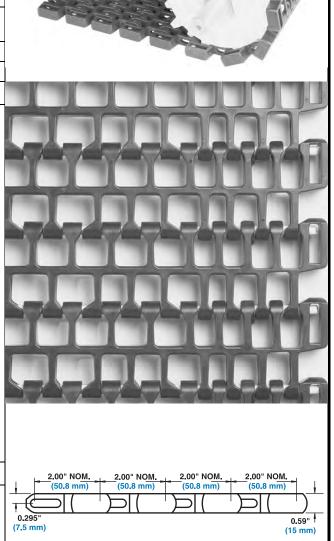
	Spiralox	® 2.2, 2.5,
	in	mm
Pitch	2.00	50.8
Minimum Width ^a	24	610
Maximum Width	60	1524
Width Increments	1.00	25.4
Opening Size (approximate)	0.94 × 0.65	23.8 × 16.5
% Open Area (fully extended)	57	%
% Minimum Open Area (2.2 Turn Ratio)	32	%
Hinge Style	Ор	en
Drive Method	Hinge-	driven

- Contact Intralox for precise belt measurements and stock status before designing equipment or ordering a belt.
- Designed for low-tension, capstan drive spiral applications with a minimum turn radius of 2.2 times the belt width (measured from inside edge).
- The Intralox Spiral Program will help predict the strength requirements of most low-tension, capstan drive spiral applications, ensuring that the belt is strong enough for the application. Contact Intralox Technical Support for more information.
- Lightweight, relatively strong belt with smooth surface grid.
- Belt openings pass straight through the belt, making the belt easy to clean.
- Uses headless rods.
- Contact Customer Service for preferred run direction on spiral applications.

WARNING: Do not place fingers in or on this belt. Fingers can get trapped in belt openings, resulting in personal injury. This belt has pinch points due to the belt spreading and collapsing as it flexes to follow the conveyor path. Pinch points can trap fingers, hair, or clothing, causing personal injury. Do not wear loose clothing, loose gloves, or hand/finger jewelry when working near this belt. Call Customer Service for tags, flyers, and stickers containing this warning.

Additional Information

- See "Belt Selection Process" (page 5)
- See "Standard Belt Materials" (page 9)
- See "Special Application Belt Materials" (page 9)
- See "Friction Factors" (page 13)



and 3.2 Radius

a. Contact Intralox Customer Service for more information regarding belt widths under 24" (610mm).

	Belt Data											
Belt Material	Ø 0.24 in		Straight Belt Strength	Spira Strer	l Belt ngth ^a	•	ure Range nuous)	W	Belt Weight			
	(6.1 mm)	lb/ft	kg/m	lbs	kg	°F	°C	lb/ft²	kg/m²			
Acetal	Acetal	1700	2530	475	215	-50 to 200	-46 to 93	1.54	7.52			
Poylpropylene	Acetal	1500	2232	400	181	34 to 200	1 to 93	1.04	5.08			
SELM	Acetal	1500	2232	375	170	-50 to 200	-46 to 93	1.24	6.05			

a. Published spiral belt strengths and their method of calculation vary among spiral belt manufacturers. Please consult an Intralox Spiral Engineer for accurate comparison of spiral belt strengths.



	Spiral	ox® Round	ed Friction Top
	in	mm	
Pitch	2.00	50.8	
Minimum Width ^a	24	610	
Maximum Width	60	1524	A STATE
Width Increments	1.00	25.4	
Opening Size (approximate)	0.94 × 0.65	23.8 × 16.5	
Hinge Style	Op	pen	- 1
Drive Method	Hinge	-driven	

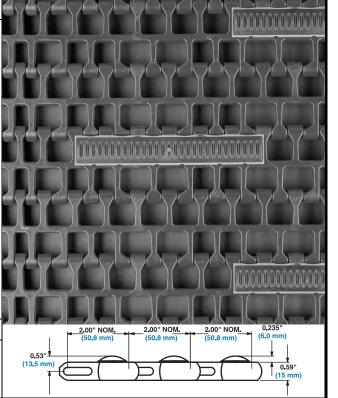
- Contact Intralox for precise belt measurements and stock status before designing equipment or ordering a belt.
- The Intralox Spiral Program will help predict the strength requirements of most low-tension, capstan drive spiral applications, ensuring that the belt is strong enough for the application. Contact Intralox Technical Support for more information.
- Friction top available in white polypropylene with white rubber, blue polypropylene with black rubber, and natural polyethylene with white rubber.
- · Lightweight, relatively strong belt with smooth surface grid.
- Belt openings pass straight through the belt, making the belt easy to clean.
- Uses headless rods.
- Contact Customer Service for preferred run direction on spiral applications.
- Contact Customer service for minimum indent requirements.

WARNING: Do not place fingers in or on this belt. Fingers can get trapped in belt openings, resulting in personal injury. This belt has pinch points due to the belt spreading and collapsing as it flexes to follow the conveyor path. Pinch points can trap fingers, hair, or clothing, causing personal injury. Do not wear loose clothing, loose gloves, or hand/finger jewelry when working near this belt. Call Customer Service for tags, flyers, and stickers containing this warning.

- See "Belt Selection Process" (page 5)
- See "Standard Belt Materials" (page 9)
- See "Special Application Belt Materials" (page 9)
- See "Friction Factors" (page 13)
- a. Contact Intralox Customer Service for more information regarding belt widths under 24 in (610mm).

	Belt Data																
Base Belt Material	Base/Friction Color	Standard Rod Material Ø 0.24 in	BS	Belt Strength	Spiral Belt Strength 1.6 TR (2.2, 2.5, 3.2 TR)		Strength 1.6 TR		Strength 1.6 TR			Temperature Range (continuous)		Belt Weight	Friction Top Hardness	Agency Acc	eptability
		(6.1 mm)	lb/ft	kg/m	lb	kg	°F	°C	lb/ft²	kg/m²		FDA (USA)	EU MCb				
Acetal	Blue/Black	Acetal	1700	2530	375 (475)	170 (215)	34 to 150	1 to 66	1.44 (1.54)	7.03 (7.52)	55 Shore A	•	С				
Acetal	White/White	Acetal	1700	2530	376 (475)	171 (215)	35 to 150	2 to 66	1.44 (1.54)	7.03 (7.52)	55 Shore A	а	С				
Polypropylene	Blue/Black	Acetal	1500	2232	300 (400)	136 (181)	34 to 150	1 to 66	1.01 (1.04)	4.93 (5.08)	55 Shore A	а					
Polypropylene	White/White	Acetal	1500	2232	300 (400)	136 (181)	34 to 150	1 to 66	1.01 (1.04)	4.93 (5.08)	55 Shore A	а	С				

- - Fully compliant
- a FDA Compliant with Restriction: Do not use in direct contact with fatty foods.
- b European Migration Certificate providing approval for food contact according to EU Regulation 10/2011.
- c EU compliant with Restriction: Do not use in direct contact with fatty foods.





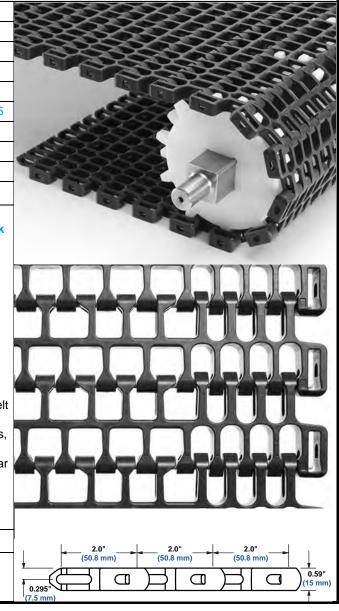
		Dual Turr	ning 2.0
	in	mm	33
Pitch	2.00	50.8	
Minimum Width	18	457.2	
Maximum Width	60	1524	
Width Increments	1.0	25.4	
Opening Size (approx.)	0.94 x 0.65	23.8 x 16.5	
Open Area (fully extended)	57	' %	
Hinge Style	Ор	en	
Drive Method	Hinge-	Driven	1
		·	

DO NOT USE IN SPIRAL CONVEYOR SYSTEMS.

- Contact Intralox for precise belt measurements and stock status before designing equipment or ordering a belt.
- Rod insertion is accomplished from edge of belt. No special tools are required.
- Uses headless rods.
- Designed for standard drive and i-Drive systems.
- Turn ratios of 2.0 times belt width (radius measured at inside edge).
- Preferred run direction is to align with slotted holes leading.
- Consult Engineering Program/i-Drive Program for specific widths not listed in this product data.

WARNING: Do not place fingers in or on this belt. Fingers can get trapped in belt openings, resulting in personal injury. This belt has pinch points due to the belt spreading and collapsing as it flexes to follow the conveyor path. Pinch points can trap fingers, hair, or clothing, causing personal injury. Do not wear loose clothing, loose gloves, or hand/finger jewelry when working near this belt. Call Customer Service for tags, flyers, and stickers containing this warning.

- See "Belt Selection Process" (page 5).
- See "Standard Belt Materials" (page 9).
- See "Special Application Belt Materials" (page 9).



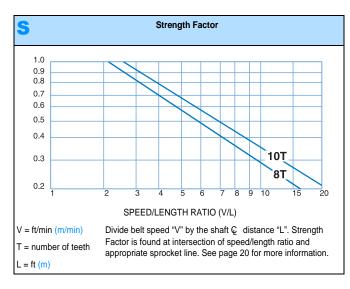
	Belt Data												
Base Belt Material	Standard Rod Material Ø 0.24 in (6.1 mm) Straight Belt			C		elt Strength Widths		(continuous)		W Belt Weight			
	Ø 0.24 III (6.1 IIIIII)	Strength			457 mm	24 in	610 mm	36 in	914 mm			Dell We	igni
		lb/ft	kg/m	lbs	kg	lbs	kg	lbs	kg	°F	°C	lb/ft²	kg/m²
Acetal	Acetal	1700	2530	213	97	300	136	475	215	-50 to 200	-46 to 93	1.54	7.52
Polypropylene	Acetal	1500	2232	190	86	260	118	400	181	34 to 200	1 to 93	1.04	5.08
SELM	Acetal	990	1473	108	49	144	65	215	98	-50 to 200	-46 to 93	1.24	6.05

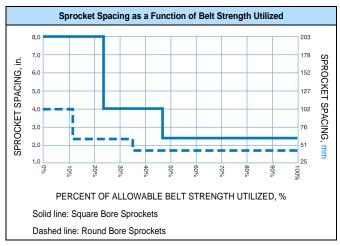
a. Published curved belt strengths and their method of calculation vary among radius belt manufacturers. Please consult an Intralox Sales Engineer for accurate comparison of curve belt strengths. Curved belt strength does not change above 36 in (914 mm).



Belt Wid	Ith Range ^b	Minimum Number of	W	earstrips
in.	mm	Sprockets Per Shaft ^c	Carryway	Returnway
24	610	3	3	3
26	660	3	3	3
28	711	5	3	3
30	762	5	3	3
32	813	5	3	3
34	864	5	3	3
36	914	5	3	3
38	965	5	4	4
40	1016	5	4	4
42	1067	5	4	4
44	1118	7	4	4
46	1168	7	4	4
48	1219	7	4	4
50	1270	7	4	4
52	1321	7	4	4
54	1372	7	5	5
56	1422	7	5	5
58	1473	7	5	5
60	1524	9	5	5
	kets at Maxi	Use Odd Number of mum 6 in. (152 mm) pacing	Contact Technical Support Group	Maximum 12 in. (305 mm)

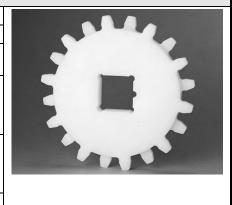
- a. For low-tension capstan drive spirals contact Technical Support Group for suggested carryway support recommendations. Belt edges must be supported by support rollers on drive shafts. Contact Technical Support Group for more information.
- b. If your belt width exceeds a number listed in the table, please refer to the sprocket and support material minimums for the next larger width range listed. Belts are available in 1.00 in. (25.4 mm) increments beginning with minimum width of 24 in. (610 mm). If the actual width is critical, consult Customer Service.
- c. These are the minimum number of sprockets. Additional sprockets may be required for heavily loaded applications. See Retainer Rings/Center Sprocket Offset chart on page 410 for lock down location.







						UHMW	Polye	thylen	e Spro	ocketa	
No. of	Nom.	Nom.	Nom.					S			
Teeth (Chordal	Pitch Dia. in.	Pitch Dia.	Outer Dia.	Outer Dia.	Hub Width	Hub Width	U.S. Sizes		Metric	Sizes	
Action)	Dia. iii.	mm	in.	mm	in.	mm	Round in.	Square in.	Round mm	Square mm	
8 (7.61%)	5.2	132	5.4	136	0.8	20.32	1-1/4 1-7/16 1-1/2 2	1-1/2 2-1/2		40 60	
10 (4.89%)	6.5	165	6.7	170	0.8	20.32	1-1/4 1-7/16 1-1/2 2	1-1/2 2-1/2		40 60	



a. Contact Customer Service for lead times, preferred method of locking down sprockets, and for proper sprocket timing.

						E	Z Clea	an Spr	ocket	l	
No. of	Nom.	Nom.	Nom.	Nom.	Nom.	Nom.	Available Bore Sizes				
Teeth (Chordal	Pitch Dia. in.	Pitch Dia.	Outer Dia.	Outer Dia.	Hub Width	Hub Width	U.S.	U.S. Sizes		Metric Sizes	
Action)	Dia. III.	mm	in.	mm	in.	mm	Round in.	Square in.	Round mm	Square mm	
10 (4.89%)	6.5	165	6.7	170	0.8	20.32		2-1/2			



a. Contact Customer Service for lead times.

				S	upport W
Available Pit	ch Diameter		Available	Bore Sizes	
in	mm	U.S.	Sizes	Metric	Sizes
111	mm	Round in	Square in	Round mm	Square mm
5.2	132	1.25 1-7/16 1.5 2	1.5 2.5		40 60
6.5	165	1.25 1-7/16 1.5 2	1.5 2.5		40 60



		Universal Sid					
Availabl	e Height	Available Materials					
in.	mm	Available Materials					
0.50	12.7						
1.00	25.4	Acetal, SELM					
2.00 ^a	50.8 ^a						

Note: Maximizes product carrying capacity: they fit into the very edge of the belt, with no indent.

Note: Assembly does not require "finger cuts" on the modules, so the belt's beam strength is uncompromised.

Note: Turn ratios that Universal Sideguards can be used in are 1.6, 2.2, 2.5, and 3.2.







in.

0.50

1.00

Overlapping Sideguards Available Height Available Materials mm 12.7 Acetal, SELM

Note: Maximizes product carrying capacity: they fit into the very edge of the belt, with no indent.

Note: Assembly does not require "finger cuts" on the modules, so the belt's beam strength is uncompromised.

Note: Turn ratios for 0.50 in (12.7 mm) Overlapping Sideguards in Acetal are 1.6, 2.2, 2.5, and 3.2.

Note: The turn ratio for 1.00 in (25.4 mm) Overlapping Sideguards is 1.6 only.

Note: Makes the belt's outer edge more snag-resistant. Note: Keeps small products from falling through belt gaps.

25.4



		Lane Divid
Availab	le Height	Available Materials
in.	mm	Available Materials
0.75	19.0	Acetal, Polypropylene
Note: Assambly	doos not require	"finger oute" on the modules, so the helt's

Note: Assembly does not require "finger cuts" on the modules, so the belt's beam strength is uncompromised.

Note: For 1.6 Turning Radius modules the Lane Dividers can be placed on indents of 1.5" (38.1 mm), 2.5" (63.5 mm), 3.5" (88.9 mm), 4.5" (114 mm), 11.5" (292 mm), and up in 1.00" (25.4 mm) increments.

Note: For 2.2 Turning Radius modules the Lane Dividers can be placed on indents of 4.5" (114 mm) and up in 1.00" (25.4 mm) increments .

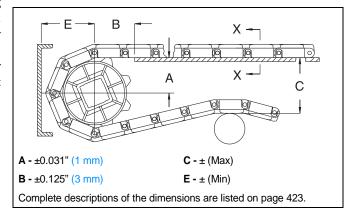




Conveyor Frame Dimensions

Regardless of type or configuration, all conveyors using Intralox belts have some basic dimensional requirements. Specifically, dimensions "A", "B", "C" and "E" listed below should be implemented in any design.

For general applications and applications where end transfer of tip-sensitive product is not critical, use the "A" dimension at the bottom of the range.

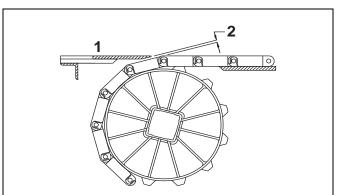


	Sproc	ket Des	cription		Α		В		С		E	
Pitch D	iameter	Nomir	nal OD	No. Teeth	Range (Bot	tom to Top)	in.	mm	in.	mm	in.	mm
in.	mm	in.	mm	NO. Teetii	in.	mm	111.			mm		
SERIES 2600 SPIRALOX® 1.0 RADIUS, 1.1 RADIUS, 1.6 RADIUS, 2.0 RADIUS, 2.2 RADIUS, 2.5 RADIUS, 3.2 RADI						ADIUS						
5.2	132	5.4	137	8	2.12-2.32	54-59	2.25	57	5.23	133	2.97	75
6.5	165	6.7	170	10	2.78-2.94	71-75	2.54	65	6.47	164	3.59	91
				SERIES 26	00 SPIRAL	OX® ROUND	ED FRIC	TION TO	P			
5.2	132	5.4	137	8	2.12-2.32	54-59	2.25	57	5.46	139	3.21	82
6.5	165	6.7	170	10	2.78-2.94	71-75	2.54	65	6.71	170	3.83	97

Dead Plate Gap

Where there is a transfer point from a belt without finger transfer plates to a dead plate, there should be a gap between the surfaces to allow for the chordal action of the belt. As the belt engages its sprockets, chordal action causes the modules to move past a *fixed* point (the tip of the dead plate) with *varying* clearances. The table below shows the minimum amount of gap which occurs at the "low point" of the modules if the tip of the dead plate just comes in contact with the "high point" as the modules pass.

In some installations it may be desirable to keep the tip of the dead plate in contact with the belt, rather than allow a gap to occur. This can be done by hinging the mounting bracket for the dead plate. This allows the dead plate to move as the modules pass, but results in a small oscillating motion which may present tippage problems for sensitive containers or products.



1 - Top surface of dead plate

2 - Dead plate gap

Note: The top surface of the dead plate is typically 0.031 in. (0.8 mm) above the belt surface for product transfer onto the belt, and 0.031 in. (0.8 mm) below the belt surface for product transfer off the belt.

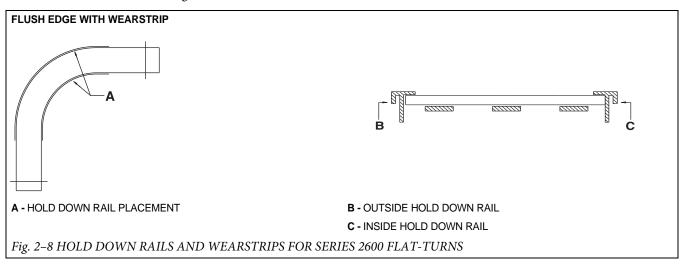
	Sprocket Description	Gap			
Pitch D	iameter	No. Teeth	in.	mm	
in.	mm	No. 166tii		11111	
5.2	132	8	0.200	5.1	
6.5	165	10	0.158	4.0	

intralox

HOLD DOWN RAILS AND WEARSTRIPS

Intralox recommends using continuous hold down rails through an entire turn, starting at a distance of 1X the belt width before the turn and ending 1X the belt width after the turn. This applies to both carryway and returnway. The use of hold down rails along both side of the belt over the full carryway is recommended but not mandatory. See "Custom wearstrips" (page 416).

SERIES 2600



BELT SELECTION INSTRUCTIONS

ENGINEERING PROGRAM ANALYSIS FOR SERIES 2600

Intralox Customer Service Technical Support Group can calculate the estimated belt pull for radius applications using **Series 2600**. The following information is required (refer to "*Radius belt data sheet*" (page 469)):

- Any environmental conditions which may affect the friction coefficient (for dirty or abrasive conditions, use higher friction coefficients than normal)
- Belt width
- Length of each straight run
- Turning angle of each turn

- Turn direction of each turn
- Inside turning radius of each turn
- Carryway/hold down rail material
- Product loading lb/ft² (kg/m²)
- Product back-up conditions
- Belt speed
- Elevation changes on each section
- Operating temperatures.

For assistance with radius belt and low-tension capstan drive spiral selections, contact Intralox Customer Service Technical Support Group. The Engineering Program should be run to ensure that the belt is strong enough for the radius application in question.

SERIES 2600 DESIGN GUIDE SUMMARY

For more information, see the Installation, Maintenance and Troubleshooting manual available from Intralox.

SERIES 2600

- A The minimum turning radius for Series 2600 is the turning radius times the belt width, measured from the inside edge.
- **B** The minimum straight run required between turns of opposing direction is 2.0 times the belt width. Shorter straight sections will lead to high wear on the edge guide rail and high pull stresses in the
- **C** There is no minimum straight run required between turns that are in the same direction.
- **D** The minimum final straight run (leading to the drive shaft) should be a minimum of 5 ft. (1.5 m). If 5 ft. (1.5 m) is not feasible, then a shorter distance (down to 1.5 times the belt width) would require a weighted take up in order to avoid sprocket wear and tracking problems. See "Special Take-Up Arrangements" (page 431).

- E The minimum length of the first straight run (immediately after the idle shaft) is 1.5 times the belt width. When shorter lengths are required (down to 1.0 times the width), an idle roller may be used in place of sprockets.
- F IDLE SHAFT
- G-1ST TURN
- H BELT WIDTH
- I- BELT TRAVEL
- J 2ND TURN
- K DRIVE MOTOR
- L DRIVE SHAFT

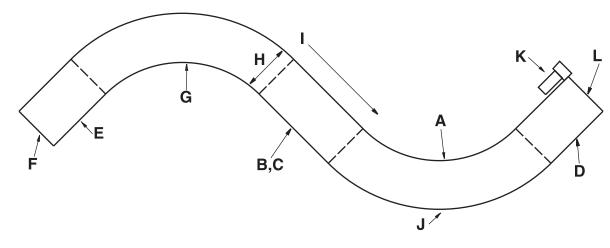


Fig. 2-9 TYPICAL 2-TURN RADIUS LAYOUT



	Sı	oiralox® 1
	in	mm
Dital		11111
Pitch	2.00	50.8
Minimum Width ^a	24	610
Maximum Width	60	1524
Width Increments	0.50	12.7
Opening Size (approximate)	0.38 × 0.64	9.52 × 16.5
Open Area (fully extended)	45	%
Min. Open Area (1.6 TR)	27	%
Hinge Style	Ор	en
Drive Method	Hinge-	driven

6 Radius

Product Notes

- Contact Intralox for precise belt measurements and stock status before designing equipment or ordering a belt.
- Designed for low-tension, capstan drive spiral applications with a minimum turn radius of 1.6 times the belt width (measured from inside edge).
- The Intralox Spiral Program will help predict the strength requirements of most low-tension, capstan drive spiral applications, ensuring that the belt is strong enough for the application. Contact Intralox Technical Support for more information.
- · Lightweight, relatively strong belt with smooth surface grid.
- Belt openings pass straight through the belt, making the belt easy to clean.
- Uses headless rods.
- Contact Customer Service for preferred run direction on spiral applications.

WARNING: Do not place fingers in or on this belt. Fingers can get trapped in belt openings, resulting in personal injury. This belt has pinch points due to the belt spreading and collapsing as it flexes to follow the conveyor path. Pinch points can trap fingers, hair, or clothing, causing personal injury. Do not wear loose clothing, loose gloves, or hand/finger jewelry when working near this belt. Call Customer Service for tags, flyers, and stickers containing this warning.

Additional Information

- See "Belt Selection Process" (page 5)
- See "Standard Belt Materials" (page 9)
- See "Special Application Belt Materials" (page 9)
- See "Friction Factors" (page 13)
- a. Contact Intralox Customer Service for more information regarding belt widths under 24 in (610 mm).

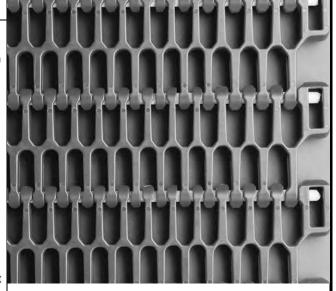
Belt Data									
Belt Material	Standard Rod Material Ø 0.24 in (6.1 mm)	BS	Straight Belt Strength	Spiral Belt Strength ^a		Temperature Range (continuous)		W	Belt Weight
		lb/ft	kg/m	lb	kg	°F	°C	lb/ft²	kg/m²
Acetal	Acetal	2000	2976	375	170	-50 to 200	-46 to 93	1.74	8.50
SELM	Acetal	1060	1577	300	136	-50 to 200	-46 to 93	1.36	6.64

2.00" NOM.

0.295

(7.5 mm)

(50.8 mm)



2.00" NOM.

(50.8 mm)

2.00" NOM.

(50.8 mm)

2.00" NOM.

(50.8 mm)

0.59"

(15 mm)

a. Published spiral belt strengths and their method of calculation vary among spiral belt manufacturers. Please consult an Intralox Spiral Engineer for accurate comparison of spiral belt strengths.



	S	piralox® 2
	in	mm
Pitch	2.00	50.8
Minimum Width ^a	24	610
Maximum Width	60	1524
Width Increments	0.50	12.7
Opening Size (approx.)	0.38 x 0.64	9.52 x 16.5
Open Area (fully extended)	48	5%
Min. Open Area (2.2 TR)	23	3%
Hinge Style	Op	en
Drive Method	Hinge-	Driven
Duadua	4 No4oo	

- Contact Intralox for precise belt measurements and stock status before designing equipment or ordering a belt.
- Designed for low-tension, capstan drive spiral applications with a minimum turn radius of 2.2 times the belt width (measured from inside edge).
- The Intralox Spiral Program will help predict the strength requirements of most low-tension, capstan drive spiral applications, ensuring that the belt is strong enough for the application. Contact Intralox Technical Support for more information.
- Lightweight, relatively strong belt with smooth surface grid.
- Belt openings pass straight through the belt, making the belt easy to clean.
- Uses headless rods.
- Contact Customer Service for preferred run direction on spiral applications.

WARNING: Do not place fingers in or on this belt. Fingers can get trapped in belt openings, resulting in personal injury. This belt has pinch points due to the belt spreading and collapsing as it flexes to follow the conveyor path. Pinch points can trap fingers, hair, or clothing, causing personal injury. Do not wear loose clothing, loose gloves, or hand/finger jewelry when working near this belt. Call Customer Service for tags, flyers, and stickers containing this warning.

Additional Information

- See "Belt Selection Process" (page 5)
- See "Standard Belt Materials" (page 9)
- See "Special Application Belt Materials" (page 9)
- See "Friction Factors" (page 13)
- a. Contact Intralox Customer Service for more information regarding belt widths under 24 in (610 mm).

	Belt Data									
Belt Material	Standard Rod Material Ø 0.24 in (6.1 mm)	Straight Belt Strength		Belt Strength ^a		Temperature Range (continuous)		W	Belt Weight	
		lb/ft	kg/m	lb	kg	°F	°C	lb/ft²	kg/m²	
Acetal	Acetal	1700	2530	375	170	-50 to 200	-46 to 93	1.85	9.03	
Polypropylene	Acetal	1500	2232	300	136	34 to 200	1 to 93	1.26	6.15	
SELM	Acetal	1060	1577	300	136	-50 to 200	-46 to 93	1.44	7.03	

0.295

(7.5 mm)

2.00" NOM.

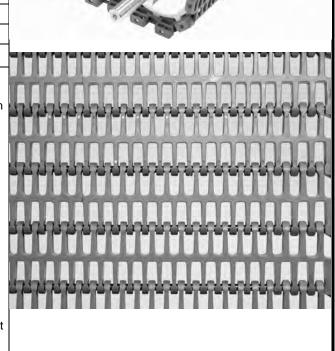
2.00" NOM.

2.00" NOM.

2.00" NOM.

0.59

(15 mm)



.2 Radius

a. Published spiral belt strengths and their method of calculation vary among spiral belt manufacturers. Please consult an Intralox Spiral Engineer for accurate comparison of spiral belt strengths.



	S	piralox® 2	2.7 Radius
	in	mm	
Pitch	2.00	50.8	
Minimum Width ^a	24	610	
Maximum Width	60	1524	
Width Increments	0.50	12.7	and the
Opening Size (approx.)	0.38 x 0.64	9.5 x 16.5	
Open Area (fully extended)	48	%	
Min. Open Area (2.7 TR)	23	3%	
Hinge Style	Ор	en	
Drive Method	Hinge-	Driven	
Produ	ct Notes		

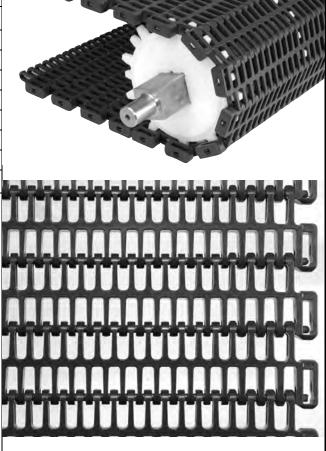
- Contact Intralox for precise belt measurements and stock status before designing equipment or ordering a belt.
- Designed for low-tension, capstan drive spiral applications with a minimum turn radius of 2.7 times the belt width (measured from inside edge).
- The Intralox Spiral Program will help predict the strength requirements of most low-tension, capstan drive spiral applications, ensuring that the belt is strong enough for the application. Contact Intralox Technical Support for more information.
- · Lightweight, relatively strong belt with smooth surface grid.
- Belt openings pass straight through the belt, making the belt easy to clean.
- Uses headless rods.
- Contact Customer Service for preferred run direction on spiral applications.

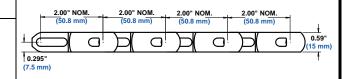
WARNING: Do not place fingers in or on this belt. Fingers can get trapped in belt openings, resulting in personal injury. This belt has pinch points due to the belt spreading and collapsing as it flexes to follow the conveyor path. Pinch points can trap fingers, hair, or clothing, causing personal injury. Do not wear loose clothing, loose gloves, or hand/finger jewelry when working near this belt. Call Customer Service for tags, flyers, and stickers containing this warning.

- See "Belt Selection Process" (page 5)
- See "Standard Belt Materials" (page 9)
- See "Special Application Belt Materials" (page 9)
- See "Friction Factors" (page 13)
- a. Contact Intralox Customer Service for more information regarding belt widths under 24 in (610 mm).

	Belt Data									
Belt Material	Standard Rod Material Ø 0.24 in (6.1 mm)	BS	Straight Belt Strength	Spiral Belt Strength ^a		· · · · · · · · · · · · · · · · · · ·			Belt Weight	
		lb/ft	kg/m	lb	kg	°F	°C	lb/ft²	kg/m²	
Acetal	Acetal	1700	2530	375	170	-50 to 200	-46 to 93	1.86	9.08	
Polypropylene	Acetal	1500	2232	300	136	34 to 200	1 to 93	1.26	6.15	
SELM	Acetal	1060	1577	300	136	-50 to 200	-46 to 93	1.44	7.03	

a. Published spiral belt strengths and their method of calculation vary among spiral belt manufacturers. Please consult an Intralox Spiral Engineer for accurate comparison of spiral belt strengths.





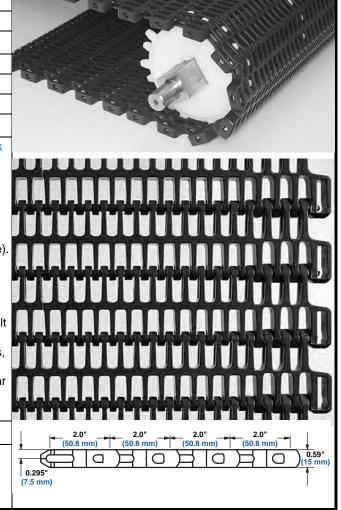


		Side D	rive
	in	mm	
Pitch	2.00	50.8	
Minimum Width ^a	12	304.8	
Maximum Width	60	1524	
Width Increments	0.50	12.7	
Opening Size (approx.)	0.38 x 0.64	9.5 x 16.5	
Open Area (fully extended) ^b	44	%	-
Min. Open Area (2.0 TR)	23	%	
Hinge Style	Ор	en	-
Drive Method	Hinge-	Driven	
	4 1 - 4		

- Contact Intralox for precise belt measurements and stock status before designing equipment or ordering a belt.
- Rod insertion is accomplished from edge of belt. No special tools are required.
- Uses headless rods.
- Designed for standard drive and i-Drive systems.
- Do not use in spiral conveyor systems.
- Turn ratios of 2.0 times belt width (measured from inside edge).
- Preferred run direction is to align slotted holes leading.
- Consult Engineering Program/ i-Drive Program for specific widths not listed in this product data.

WARNING: Do not place fingers in or on this belt. Fingers can get trapped in belt openings, resulting in personal injury. This belt has pinch points due to the belt spreading and collapsing as it flexes to follow the conveyor path. Pinch points can trap fingers, hair, or clothing, causing personal injury. Do not wear loose clothing, loose gloves, or hand/finger jewelry when working near this belt. Call Customer Service for tags, flyers, and stickers containing this warning.

- See "Belt Selection Process" (page 5)
- See "Standard Belt Materials" (page 9)
- See "Special Application Belt Materials" (page 9)
- See "Friction Factors" (page 13)



- a. Contact Intralox Customer Service for more information regarding belt widths under 12 in (305 mm).
- b. Open area calculations for S2700 Dual Turning (2.0) are unique to this style, and therefore are not directly comparable to other S2700 styles.

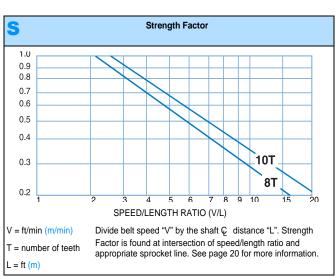
	Belt Data								
Belt Material	Standard Rod Material Ø 0.240 in (6.1 mm)	BS	Straight Belt Strength	Curved Belt Strength ^a		Temperatu (continu	. •	W	Belt Weight
		lb/ft	kg/m	lb	kg	°F	°C	lb/ft²	kg/m²
Acetal	Acetal	1700	2530	375	170	-50 to 200	-46 to 93	1.84	8.98
Acetal	Nylon	1700	2530	375	170	-50 to 200	-46 to 93	1.81	8.84
SELM	Acetal	1060	1577	300	136	-50 to 200	-46 to 93	1.42	6.93
SELM	Nylon	1060	1577	300	136	-50 to 212	-46 to 100	1.40	6.84

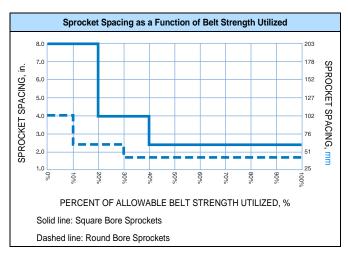
- a. Published curved belt strengths and their method of calculation vary among spiral belt manufacturers. Please consult an Intralox Spiral Engineer for accurate comparison of curve belt strengths.
- b. Belt will function mechanically up to 240°F (116°C). Belt used in the temperature window of 212°F to 240°F (100°C to 116°C) is not FDA-compliant.



	5	Sprocket and S	Support Quantity R	Reference ^a			
Belt Wic	lth Range ^b	Minimum Number of	Wearstrips ^d				
in.	mm	Sprockets Per Shaft ^c	Carryway	Returnway			
24	610	5	2	2			
26	660	5	2	2			
28	711	5	2	2			
30	762	5	3	2			
32	813	5	3	2			
34	864	7	3	2			
36	914	7	3	2			
38	965	7	3	2			
40	1016	7	3	2			
42	1067	7	3	2			
44	1118	7	3	2			
46	1168	9	3	2			
48	1219	9	3	2			
50	1270	9	3	2			
52	1321	9	3	2			
54	1372	9	3	2			
56	1422	9	4	3			
58	1473	11	4	3			
60	1524	11	4	3			
	kets at Maxi	Use Odd Number of mum 8 in. (203 mm) pacing	Maximum 25 in. (635 mm) © Spacing	Maximum 30 in. (762 mm) © Spacing			

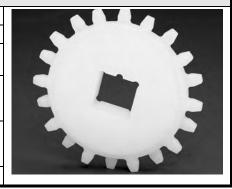
- a. For low-tension capstan drive spirals contact Technical Support Group for suggested carryway support recommendations. Belt edges must be supported by support rollers on drive shafts. Contact Technical Support Group for more information.
- b. If your belt width exceeds a number listed in the table, please refer to the sprocket and support material minimums for the next larger width range listed. Belts are available in 0.50 in. (12.7 mm) increments beginning with minimum width of 24 in. (610 mm). If the actual width is critical, consult Customer Service.
 c. These are the minimum number of sprockets. Additional sprockets may be required for heavily loaded applications. See Retainer Rings/Center Sprockets.
- c. These are the minimum number of sprockets. Additional sprockets may be required for heavily loaded applications. See Retainer Rings/Center Sprocket Offset chart on page 410 for lock down location.
- d. Carryway Spacing dependant on a distributed 2 lb/ft² at 65 °F for Acetal belt with Acetal Rod with a 2" and 4" overhang.







							Aceta	l Spro	cketa	
No. of	Nom.	Nom.	Nom.	Nom.	Nom.	Nom.	P	vailable E	Bore Size	S
Teeth (Chordal	Pitch Dia. in	Pitch Dia.	Outer Dia. in	Outer Dia.	Hub Width	Hub Width	U.S. Sizes		Metric Sizes	
Action)	Dia. III	mm	Dia. III	mm	in	mm	Round in	Square in	Round mm	Square mm
8 (7.61%)	5.2	132	5.4	136	0.8	20.32	1-1/4 1-7/16 2	1-1/2 2-1/2		60
10 (4.85%)	6.5	165	6.7	170	0.8	20.32	1-1/4 1-7/16 2	1-1/2 2-1/2		40 60



a. Contact Customer Service for lead times, preferred method of locking down sprockets, and for proper sprocket timing.

				S	upport W
Available Pi	tch Diameter		Available	Bore Sizes	
in	mm	U.S.	Sizes	Metric	Sizes
II I	mm	Round in	Square in	Round mm	Square mm
5.2	132	1.25 1-7/16 1.5 2	1.5 2.5		40 60
6.5	165	1.25 1-7/16 1.5 2	1.5 2.5		40 60



		Overlapping Si
Availabl	e Height	Available Materials
in	mm	Available Waterials
0.50	12.7	Acetal, SELM
1.00	25.4	Acetal, SELIVI
Note: Sideguard	ls maximize produ	act carrying capacity: they fit into the very

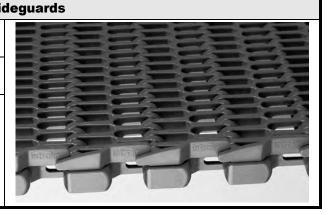
Note: Sideguards maximize product carrying capacity: they fit into the very edge of the belt, with no indent.

Note: Sideguard assembly does not require "finger cuts" on the modules, so the belt's beam strength is uncompromised.

Note: Turn ratio for 0.50 in (12.7 mm) Overlapping Sideguards in Acetal is 1.6.

Note: The turn ratio for 1.00 in (25.4 mm) Overlapping Sideguard is 1.6 only.

Universal Sideguard is 1.6 only.



		Universal Side	
Availabl	e Height	Available Materials	
in	mm	Available Materials	
0.50	12.7		
1.00	25.4	Acetal, SELM	
2.00 ^a	50.8 ^a		

Note: Maximizes product carrying capacity: they fit into the very edge of the belt, with no indent.

Note: Assembly does not require "finger cuts" on the modules, so the belt's beam strength is uncompromised.





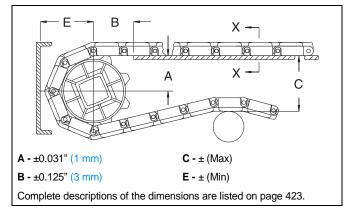
		Lane D	lividers
Available	e Height	Available Materials	
in	mm.	Acetal, SELM	
0.75	19		



Conveyor Frame Dimensions

Regardless of type or configuration, all conveyors using Intralox belts have some basic dimensional requirements. Specifically, dimensions "A", "B", "C" and "E" listed below should be implemented in any design.

For general applications and applications where end transfer of tip-sensitive product is not critical, use the "A" dimension at the bottom of the range.

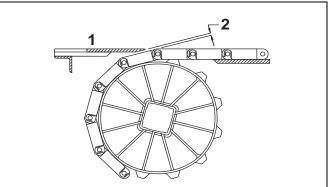


Sprocket Description			Α		В		С		E			
Pitch Diameter		Nominal OD		No. Teeth	Range (Bottom to Top)			mm	in.	mm	in	mm
in.	mm	in.	mm	No. reem	in.	mm	in.	mm	111.	mm	in.	mm
		SEF	RIES 27	00 SPIRAL	OX® 1.6 RAD	DIUS, 2.2 RAI	DIUS, 2	.7 RAD	IUS			
5.2	132	5.4	137	8	2.12-2.32	54-59	2.25	57	5.23	133	2.97	75
6.5	165	6.7	170	10	2.78-2.94	71-75	2.54	65	6.47	164	3.59	91

Dead Plate Gap

Where there is a transfer point from a belt without finger transfer plates to a dead plate, there should be a gap between the surfaces to allow for the chordal action of the belt. As the belt engages its sprockets, chordal action causes the modules to move past a *fixed* point (the tip of the dead plate) with *varying* clearances. The table below shows the minimum amount of gap which occurs at the "low point" of the modules if the tip of the dead plate just comes in contact with the "high point" as the modules pass.

In some installations it may be desirable to keep the tip of the dead plate in contact with the belt, rather than allow a gap to occur. This can be done by hinging the mounting bracket for the dead plate. This allows the dead plate to move as the modules pass, but results in a small oscillating motion which may present tippage problems for sensitive containers or products.



1 - Top surface of dead plate

2 - Dead plate gap

Note: The top surface of the dead plate is typically 0.031 in. (0.8 mm) above the belt surface for product transfer onto the belt, and 0.031 in. (0.8 mm) below the belt surface for product transfer off the belt.

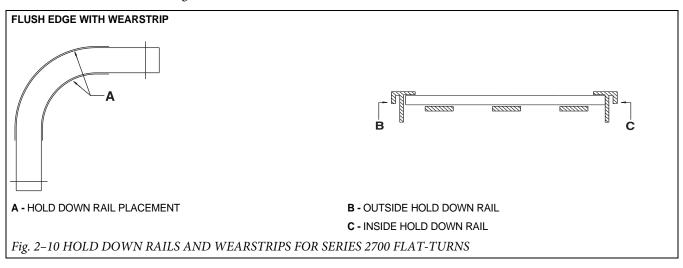
	Sprocket Description	Gap		
Pitch D	iameter	No. Teeth	in	mm
in.	mm	No. reem	in.	mm
5.2	132	8	0.200	5.1
6.5	165	10	0.158	4.0



HOLD DOWN RAILS AND WEARSTRIPS

Intralox recommends using continuous hold down rails through an entire turn, starting at a distance of 1X the belt width before the turn and ending 1X the belt width after the turn. This applies to both carryway and returnway. The use of hold down rails along both side of the belt over the full carryway is recommended but not mandatory. See "Custom wearstrips" (page 416).

SERIES 2700



BELT SELECTION INSTRUCTIONS

ENGINEERING PROGRAM ANALYSIS FOR SERIES 2700

Intralox Customer Service Technical Support Group can calculate the estimated belt pull for radius applications using **Series 2700**. The following information is required (refer to "*Radius belt data sheet*" (page 469)):

- Any environmental conditions which may affect the friction coefficient (for dirty or abrasive conditions, use higher friction coefficients than normal)
- Belt width
- Length of each straight run
- Turning angle of each turn

- Turn direction of each turn
- Inside turning radius of each turn
- Carryway/hold down rail material
- Product loading lb/ft² (kg/m²)
- Product back-up conditions
- Belt speed
- Elevation changes on each section
- Operating temperatures.

For assistance with radius belt and low-tension capstan drive spiral selections, contact Intralox Customer Service Technical Support Group. The Engineering Program should be run to ensure that the belt is strong enough for the radius application in question.

SERIES 2700 DESIGN GUIDE SUMMARY

For more information, see the Installation, Maintenance and Troubleshooting manual available from Intralox.

SERIES 2700

- A The minimum turning radius for Series 2700 is 2.2 times the belt width, measured from the inside edge for the standard edge or 1.7 times the belt width for the tight turning style.
- **B** The minimum straight run required between turns of opposing direction is 2.0 times the belt width. Shorter straight sections will lead to high wear on the edge guide rail and high pull stresses in the belt.
- C There is no minimum straight run required between turns that are in the same direction.
- D The minimum final straight run (leading to the drive shaft) should be a minimum of 5 ft. (1.5 m). If 5 ft. (1.5 m) is not feasible, a shorter distance (down to 1.5 times the belt width) would require a weighted take up in order to avoid sprocket wear and tracking problems. See "Special Take-Up Arrangements" (page 431).

- E The minimum length of the first straight run (immediately after the idle shaft) is 1.5 times the belt width. When shorter lengths are required (down to 1.0 times the width), an idle roller may be used in place of sprockets.
- F IDLE SHAFT
- G-1ST TURN
- H BELT WIDTH
- I- BELT TRAVEL
- J 2ND TURN
- **K -** DRIVE MOTOR
- L DRIVE SHAFT

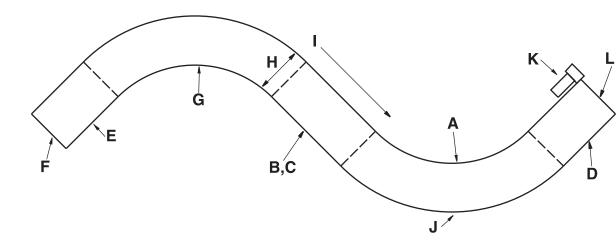


Fig. 2-11 TYPICAL 2-TURN RADIUS LAYOUT

-46 to 93

-46 to 93

1.60

1.28

v 0.295"

(7.45 mm)

7.81

6.2



orioriorio			CLINICO 2000
	Spi	ralox® GTec	ch 1.6 Radius
	in	mm	CELLISSES SESSIONS
Pitch	1.5	38.1	
Minimum Width	24	609.6	
Width Increments	1.00	25.4	
Opening Sizes (approx.)	1.1 x 0.42	27.9 x 10.7	
Open Area (Fully Extended)	50	0%	
Minimum Open Area	36	6%	
Hinge Style	Or	pen	
Drive Method	Hinge	-Driven	
Produc			
 The Intralox Spiral Program will help most low-tension, capstan drive spira strong enough for the application. Comore information. Minimum sprocket indent from the intelligence belt edge may vary. Contact Custom placement. Lightweight, relatively strong belt with Relatively uniform open area across and cooling product. Belt openings pass straight through the Uses headless rods. Robust edge feature adds strength to WARNING: Do not place fingers in or obelt openings, resulting in personal injuting the belt spreading and collapsing as it Pinch points can trap fingers, hair, or continuous modern of the personal collapsing in the belt. Call Customer Service for this warning. 	al applications, ensure ontact Intralox Technologies and from Service to determine the Service to determine the width of the belt the belt, making the loothe outside edge of on this belt. Fingers oury. This belt has pin flexes to follow the colothing, causing persor hand/finger jewelr	ring that the belt is nical Support for rom the outside nine exact id. to aid in freezing belt easy to clean. If the belt. can get trapped in nich points due to conveyor path. sonal injury. Dory when working	
Additional I	Information		†
See "Belt Selection Process" (page 5)			1.5" 1.5" 1.5" 1.5" (38.1 mm) (38.1 mm) (38.1 mm) (38.1 mm) (38.1 mm)

Acetal

Acetal

- See "Belt Selection Process" (page 5)
- See "Standard Belt Materials" (page 9)

Acetal

SELM

• See "Special Application Belt Materials" (page 9)



a.	Published spiral belt strengths and their method of calculation vary among spiral manufacturers. Please contact Intralox Customer Service for accurate
	comparison of spiral belt strengths.

1600

500

2381

744

475

375

215

170

-50 to 200

-50 to 200

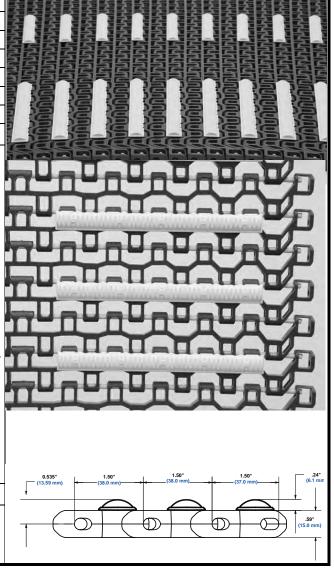


	Spiralox®	GTech Ro	unded Friction Top)
	in	mm		
Pitch	1.5	38.1		à
Minimum Width	24	609.6		a a
Width Increments	1.00	25.4		1
Opening Sizes (approx.)	1.1 x 0.42	27.9 x 10.7		9
Hinge Style	Op	pen		Š
Drive Method	Hinge-	-Driven		-
D	4 N-4			4

- Contact Intralox for precise belt measurements and stock status before designing equipment or ordering a belt.
- The Intralox Spiral Program will help predict the strength requirements of most low-tension, capstan drive spiral applications, ensuring that the belt is strong enough for the application. Contact Intralox Technical Support for more information.
- Friction top available in white polypropylene with white rubber or blue polypropylene with high-performance blue rubber.
- Contact Customer Service for minimum indent requirements.
- Minimum sprocket indent from the inside belt edge and from the outside belt edge may vary. Contact Customer Service to determine exact placement.
- Must have a 2.0 in (50.8 mm) minimum gap between friction inserts for correct sprocket placement.
- Lightweight, relatively strong belt with smooth surface grid.
- Belt openings pass straight through the belt, making the belt easy to clean.
- Uses headless rods.
- Robust edge feature adds strength to the outside edge of the belt.

WARNING: Do not place fingers in or on this belt. Fingers can get trapped in belt openings, resulting in personal injury. This belt has pinch points due to the belt spreading and collapsing as it flexes to follow the conveyor path. Pinch points can trap fingers, hair, or clothing, causing personal injury. Do not wear loose clothing, loose gloves, or hand/finger jewelry when working near this belt. Call Customer Service for tags, flyers, and stickers containing this warning.

- See "Belt Selection Process" (page 5)
- See "Standard Belt Materials" (page 9)
- See "Special Application Belt Materials" (page 9)
- See "Friction Factors" (page 13)



	Belt Data													
Base Belt Material	Base/Friction Color	Standard Rod Material Ø 0.24 in	Belt Spiral Belt Strength Strength		Temperature Range (continuous)		W	Belt Weight	Friction Top Hardness	Agency Acce	eptability ^b			
		(6.1 mm)	lb/ft	kg/m	lb	kg	°F	°C	lb/ft²	kg/m²		FDA (USA)	EU MC ^c	
Acetal	White/White	Acetal	1700	2530	376 (475)	171 (215)	34 to 150	1 to 66	1.44 (1.54)	7.03 (7.52)	55 Shore A	•	•	
Acetal	High Performance FT Blue/Blue	Acetal	1700	2530	376 (475)	171 (215)	34 to 212	1 to 100	1.44 (1.54)	7.03 (7.52)	59 Shore A	•	•	

- a. Published spiral belt strengths and their method of calculation vary among spiral manufacturers. Contact an Intralox Spiral Engineer for accurate comparison of spiral belt strengths.
- b. Prior to Intralox's development of Series S2800, USDA-FSIS Meat and Poultry discontinued publishing a list of acceptable new products designed for food contact. As of the printing of the manual, third-party approvals are being investigated, but are not yet sanctioned by the USDA-FSIS.
- c. European Migration Certificate providing approval for food contact according to EU Regulation 10/2011.

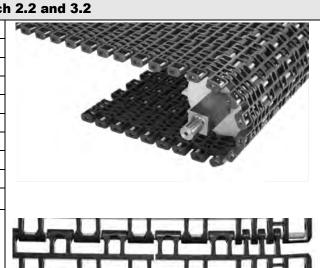


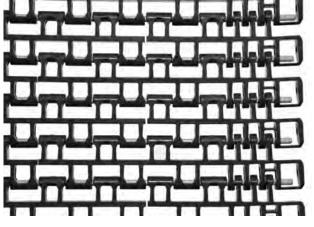
	Spir	alox® GTech
	in	mm
Pitch	1.5	38.1
Minimum Width	24	609.6
Width Increments	1.00	25.4
Opening Sizes (approx.)	1.1 x 0.42	27.9 x 10.7
Open Area (Fully Extended)	50)%
Minimum Open Area	36	5%
Hinge Style	Op	oen
Drive Method	Hinge-	-Driven
Duadu	of Notes	

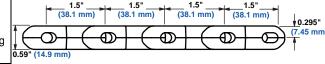
- Contact Intralox for precise belt measurements and stock status before designing equipment or ordering a belt.
- Designed for low-tension capstan drive spiral applications with a minimum turn radius of 2.2 times the belt width (measured from the inside edge).
- The Intralox Spiral Program will help predict the strength requirements of most low-tension, capstan drive spiral applications, ensuring that the belt is strong enough for the application. Contact Intralox Technical Support for more information.
- Minimum sprocket indent from the inside belt edge and from the outside belt edge may vary. Contact Customer Service to determine exact placement.
- · Lightweight belt with extreme beam strength prevents bowing and buckling.
- Relatively uniform open area across the width of the belt to aid in freezing and cooling product.
- Open hinge and slot design facilitates sanitation.
- Uses headless rods.
- Robust edge feature adds strength to the outside edge of the belt.

WARNING: Do not place fingers in or on this belt. Fingers can get trapped in belt openings, resulting in personal injury. This belt has pinch points due to the belt spreading and collapsing as it flexes to follow the conveyor path. Pinch points can trap fingers, hair, or clothing, causing personal injury. Do not wear loose clothing, loose gloves, or hand/finger jewelry when working near this belt. Call Customer Service for tags, flyers, and stickers containing this warning.

- See "Belt Selection Process" (page 5)
- See "Standard Belt Materials" (page 9)
- See "Special Application Belt Materials" (page 9)
- See "Friction Factors" (page 13)







Belt Data												
Belt Material	Standard Rod Material Ø 0.240 in (6.1 mm)	Straight Belt Strength		Spiral Belt Strength ^a		Temperatu (contin	W	Belt Weight				
		lb./ft.	kg/m	lbs.	kg	°F	°C	lb./ft.2	kg/m²			
Acetal	Acetal	1600	2381	475	215	-50 to 200	-46 to 93	1.60	7.81			
SELM	Acetal	500	744	375	170	-50 to 200	-46 to 93	1.27	6.3			

a. Published spiral belt strengths and their method of calculation vary among spiral manufacturers. Please consult an Intralox Spiral Engineer for accurate comparison of spiral belt strengths.

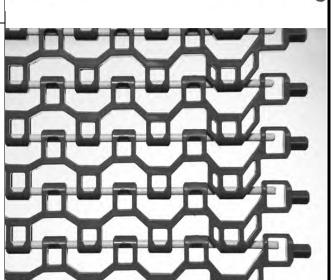


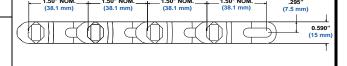
			4 D 1 TM 4	
	Spira	lox® Direc	tDrive'™ (DD)
	in	mm	日日	
Pitch	1.5	38.1		E (
Minimum Width	24	609.6		
Width Increments	1.00	25.4		
Opening Sizes (approx.)	1.1 x 0.42	27.9 x 10.7		
Open Area (Fully Extended)	50)%	66	5
Minimum Open Area	36	6%		
Hinge Style	Op	en		
Drive Method	Hinge-	Driven	AA	A.
Produc	t Notes			

- Contact Intralox for precise belt measurements and stock status before designing equipment or ordering a belt.
- The Intralox Spiral Program will help predict the strength requirements of most spiral applications, ensuring that the belt is strong enough for the application.
- Minimum sprocket indent from the inside belt edge and from the outside belt edge may vary. Contact Customer Service to determine exact placement.
- Lightweight, relatively strong belt with smooth surface grid.
- Relatively uniform open area across the width of the belt to aid in freezing and cooling product.
- Belt openings pass straight through the belt, making the belt easy to clean.
- Uses headless rods.
- Robust edge feature adds strength to the outside edge of the belt.

WARNING: Do not place fingers in or on this belt. Fingers can get trapped in belt openings, resulting in personal injury. This belt has pinch points due to the belt spreading and collapsing as it flexes to follow the conveyor path. Pinch points can trap fingers, hair, or clothing, causing personal injury. Do not wear loose clothing, loose gloves, or hand/finger jewelry when working near this belt. Call Customer Service for tags, flyers, and stickers containing this warning.

- See "Belt Selection Process" (page 5)
- See "Standard Belt Materials" (page 9)
- See "Special Application Belt Materials" (page 9)
- See "Friction Factors" (page 13)





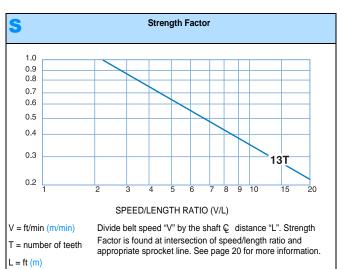
Belt Data												
Belt Material	Standard Rod Material Ø 0.240 in (6.1 mm)	Straight Belt Strength		Spiral Belt Strength ^a		Temperature Range (continuous)		W	Belt Weight			
		lb./ft.	kg/m	lbs.	kg	°F	°C	lb./ft.²	kg/m²			
Acetal	Acetal	1600	2381	475	215	-50 to 200	-46 to 93	1.60	7.81			
SELM	Acetal	500	744	375	170	-50 to 200	-46 to 93	1.27	6.2			

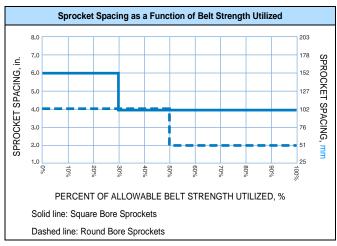
a. Published spiral belt strengths and their method of calculation vary among spiral manufacturers. Please consult an Intralox Spiral Engineer for accurate comparison of spiral belt strengths.



		Sprocket a	nd Support Quantity Refere	ence
Belt Wid	dth Range ^a	Minimum Number of	V	Vearstrips
in.	mm	Sprockets Per Shaft ^b	Carryway	Returnway
24	610	4	2	2
26	660	4	2	2
28	711	5	2	2
30	762	5	2	2
32	813	5	2	2
34	864	6	2	2
36	914	6	2	2
38	965	6	3	3
40	1016	7	3	3
42	1067	7	3	3
44	1118	7	3	3
46	1168	8	3	3
48	1219	8	3	3
50	1270	8	3	3
52	1321	9	3	3
54	1372	9	3	3
56	1422	9	3	3
58	1473	10	3	3
60	1524	10	3	3

- If your belt width exceeds a number listed in the table, please refer to the sprocket and support material minimums for the next larger width range listed. Belts are available in 1.00 in. (25.4 mm) increments beginning with minimum width of 24 in. (609.6 mm). If the actual width is critical, consult Customer Service. These are the minimum number of sprockets. Additional sprockets may be required for heavily loaded applications.



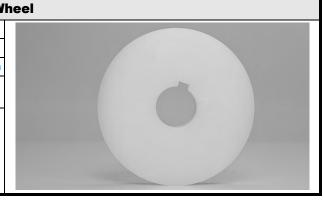


							Acet	al Spr	ocket ^a	
No. of	Nom.	Nom.	Nom.	Nom.	om. Nom. Nom. Available Bore Size					
Teeth (Chordal	Pitch Dia.	Pitch Dia.	Outer Dia.	Outer Dia.	Hub Width	Hub Width	U.S. Sizes		Metric S	izes
Action)	in	mm	in	mm	in mm	Round in	Square in	Round mm	Square mm	
13 (1.92%)	6.2	157.5	6.4	162.6	1.2	30.5	1-7/16 1-1/2 2	1.5 2.5		40 60





				S	upport W		
Available Pit	Bore Sizes						
in	mm	U.S.	Sizes	Metric Sizes			
""	mm	Round in	Square in	Round mm	Square mm		
6.3	160	1-7/16	1.5		40		
		2	2.5		60		



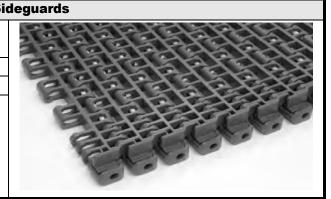
		Overlapping Si
Availabl	e Height	Available Materials
in	mm	Available Materials
0.50	12.7	Acetal
1.0	25.4	Acetal

Note: Maximizes product carrying capacity: they fit into the very edge of the belt, with no indent.

Note: Assembly does not require "finger cuts" on the modules, so the belt's beam strength is uncompromised.

Note: Turn ratio for 0.50 in (12.7 mm) Overlapping Sideguards is 1.6.

Note: Makes the belt's outer edge more snag-resistant. **Note:** Keeps small products from falling through belt gaps.



		Lane Divid
Availabl	e Height	Available Materials
in	mm	Available Materials
0.75	19	Acetal, SELM

Note: Assembly does not require "finger cuts" on the modules, so the belt's beam strength is uncompromised.

Note: Lane Dividers can be spaced 2 in (50.8 mm) apart along the width of the

Note: Please contact Customer Service for minimum indent requirements.

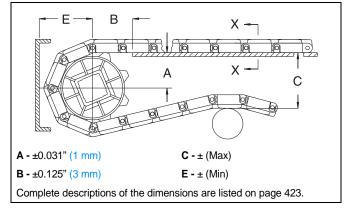




Conveyor Frame Dimensions

Regardless of type or configuration, all conveyors using Intralox belts have some basic dimensional requirements. Specifically, dimensions "A", "B", "C" and "E" listed below should be implemented in any design.

For general applications and applications where end transfer of tip-sensitive product is not critical, use the "A" dimension at the bottom of the range.

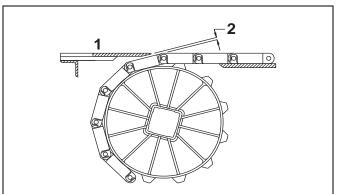


	Sprocket Description					Α		В		С		=
Pitch D	iameter	Nomir	al OD	No. Teeth	Range (Bottom to Top)		in	mm	in.		in	m m
in.	mm	in.	mm	No. reem	in.	mm	in.	mm	111.	mm	ın.	mm
	SERIES 2800 SPIRALOX® G-TECH 1.6, 2.2 & 3.2 RADIUS and DIRECT DRIVE											
6.3	160	6.5	165	13	2.75-2.84	70-72	2.51	64	6.27	159	3.49	89
		SE	RIES 2	800 SPIRAL	OX® G-TEC	H ROUNDED	FRIC	TION TO	OP			
6.3	160	6.5	165	13	2.75-2.84	70-72	2.51	64	6.51	165	3.74	95

Dead Plate Gap

Where there is a transfer point from a belt without finger transfer plates to a dead plate, there should be a gap between the surfaces to allow for the chordal action of the belt. As the belt engages its sprockets, chordal action causes the modules to move past a *fixed* point (the tip of the dead plate) with *varying* clearances. The table below shows the minimum amount of gap which occurs at the "low point" of the modules if the tip of the dead plate just comes in contact with the "high point" as the modules pass.

In some installations it may be desirable to keep the tip of the dead plate in contact with the belt, rather than allow a gap to occur. This can be done by hinging the mounting bracket for the dead plate. This allows the dead plate to move as the modules pass, but results in a small oscillating motion which may present tippage problems for sensitive containers or products.



1 - Top surface of dead plate 2 - Dead plate gap

Note: The top surface of the dead plate is typically 0.031 in. (0.8 mm) above the belt surface for product transfer onto the belt, and 0.031 in. (0.8 mm) below the belt surface for product transfer off the belt.

	Sprocket Description	Ga	р		
Pitch D	iameter	No. Teeth	in	mm	
in.	mm	No. 1eeul	in.		
6.3	160	13	0.091	2.3	

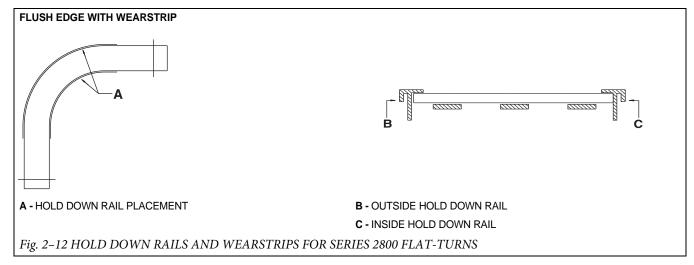


HOLD DOWN RAILS AND WEARSTRIPS

SERIES 2800

Intralox recommends using continuous hold down rails through an entire turn, starting at a distance of 1X the belt width before the turn and ending 1X the belt width after the

turn. This applies to both carryway and returnway. The use of hold down rails along both side of the belt over the full carryway is recommended but not mandatory. See "Custom wearstrips" (page 416).



BELT SELECTION INSTRUCTIONS

ENGINEERING PROGRAM ANALYSIS FOR SERIES 2800

Intralox Customer Service Technical Support Group can calculate the estimated belt pull for radius applications using **Series 2800**. The following information is required (refer to "Radius belt data sheet" (page 469)):

- Any environmental conditions which may affect the friction coefficient (for dirty or abrasive conditions, use higher friction coefficients than normal)
- Belt width
- Length of each straight run
- Turning angle of each turn

- Turn direction of each turn
- Inside turning radius of each turn
- Carryway/hold down rail material
- Product loading lb/ft² (kg/m²)
- Product back-up conditions
- Belt speed
- Elevation changes on each section
- Operating temperatures.

For assistance with radius belt and low-tension capstan drive spiral selections, contact Intralox **Customer Service Technical Support Group. The** Engineering Program should be run to ensure that the belt is strong enough for the radius application in question.



SERIES 2800 DESIGN GUIDE SUMMARY

For more information, see the *Installation, Maintenance and Troubleshooting manual* available from Intralox.

- A The minimum turning radius for **Series 2800** is 1.6 times the belt width, measured from the inside edge for the standard edge.
- B The minimum straight run required between turns of opposing direction is 1.6 times the belt width. Shorter straight sections will lead to high wear on the edge guide rail and high pull stresses in the belt.
- **C** There is no minimum straight run required between turns that are in the same direction.
- D The minimum final straight run (leading to the drive shaft) should be a minimum of 5 ft. (1.5 m). If 5 ft. (1.5 m) is not feasible, a shorter distance (down to 1.5 times belt width) would require a weighted take up in order to avoid sprocket wear and tracking problems. See "Special Take-Up Arrangements" (page 431).

- E The minimum length of the first straight run (immediately after the idle shaft) is 1.5 times the belt width. When shorter lengths are required (down to 1.0 times the width), an idle roller may be used in place of sprockets.
- F IDLE SHAFT
- G 1ST TURN
- H BELT WIDTH
- I BELT TRAVEL
- J 2ND TURN
- K DRIVE MOTOR
- L DRIVE SHAFT

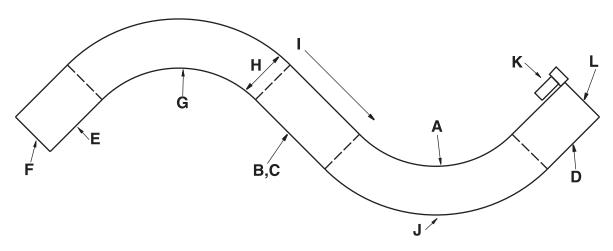


Fig. 2-13 TYPICAL 2-TURN RADIUS LAYOUT



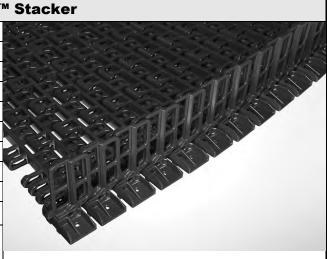


	Di	rectDrive [™]		
	in	mm		
Pitch	1.5	38.1		
Minimum Width	12	304.8		
Width Increments	2.00	50.8		
Opening Sizes (approx.)	1.1 x 0.42	27.9 x 10.7		
Open Area (Fully Extended)	50	%		
Minimum Open Area	36	%		
Hinge Style	Open			
Drive Method	Hinge-	Driven		
	B	•		

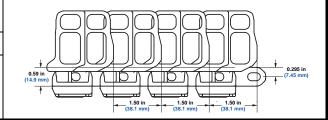
- Contact Intralox for precise belt measurements and stock status before designing equipment or ordering a belt.
- Designed for stacker applications using the patented DirectDrive technology.
- The Intralox Spiral Program can help predict the strength requirements of most spiral applications, ensuring the belt is strong enough for the application. Contact our Technical Service Group for more information.
- Lightweight, strong belt with smooth surface grid for good product release.
- Relatively uniform open area across the width of the belt to aid in freezing and cooling of product.
- Belt openings pass straight through the belt, making the belt easy to clean.
- 60 mm, 80 mm, & 100 mm tier spacing available.
- Sideplates are permanently installed and cannot be replaced.
- · Uses headless rods.

WARNING: Do not place fingers in or on this belt. Fingers can get trapped in belt openings, resulting in personal injury. This belt has pinch points due to the belt spreading and collapsing as it flexes to follow the conveyor path. Pinch points can trap fingers, hair, or clothing, causing personal injury. Do not wear loose clothing, loose gloves, or hand/finger jewelry when working near this belt. Call Customer Service for tags, flyers, and stickers containing this warning.

- See "Belt Selection Process" (page 5)
- See "Standard Belt Materials" (page 9)
- See "Special Application Belt Materials" (page 9)
- See "Friction Factors" (page 13)







Belt Data									
Belt Material	Standard Rod Material Ø 0.240 in (6.1 mm)	Straight Belt Strength Strengt		. •	W	Belt Weight			
		lb./ft	kg/m	lbs.	kg	°F	°C	lb./ft.2	kg/m²
Acetal	Acetal	1600	2381	475	215	-50 to 200	-46 to 93	1.96	9.57

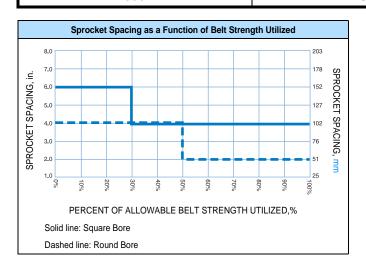
- a. Published spiral belt strengths and their method of calculation vary among spiral manufacturers. Please consult an Intralox Spiral Engineer for accurate comparison of spiral belt strengths.
- b. Sideflexing applications should not exceed 180 °F (82 °C).



Sprocket and Support Quantity Reference								
Belt Wid	Ith Range ^a	Minimum Number of	We	earstrips				
in	mm	Sprockets Per Shaft ^b	Carryway	Returnway				
24	610	4	2	2				
26	660	4	2	2				
28	711	5	2	2				
30	762	5	2	2				
32	813	5	2	2				
34	864	6	2	2				
36	914	6	2	2				
38	965	6	3	3				
40	1016	7	3	3				
42	1067	7	3	3				
44	1118	7	3	3				
46	1168	8	3	3				
48	1219	8	3	3				
50	1270	8	3	3				
52	1321	9	3	3				
54	1372	9	3	3				
56	1422	9	3	3				
58	1473	10	3	3				
60	1524	10	3	3				

a. If your belt width exceeds a number listed in the table, please refer to the sprocket and support material minimums for the next larger width range listed. Belts are available in 1.00 in. (25.4 mm) increments beginning with minimum width of 24 in. (609.6 mm). If the actual width is critical, consult Customer Service.
 b. These are the minimum number of sprockets. Additional sprockets may be required for heavily loaded applications. The center sprocket should be locked down. See Center Sprocket Offset chart for lock down location

Center Sprocket Offset							
Number of Links	Offset						
	in	mm					
even	0.0	0.0					
odd	0.5	12.7					





							Acet	al Spr	ocketª	
No. of Teeth	Pitch	Pitch	Outer		Nom. Hub	Nom. Hub	A U.S. Si		Bore Sizes Metric S	izes
(Chordal Action)	Dia. in	Dia. mm	Dia. in	Dia. mm	Width in	Width mm	Round in	Square in	Round mm	Square mm
13 (1.92%)	6.2	157.5	6.4	162.6	1.2	30.5	2 1-7/16	1.5 2.5		40 60

a. Contact Customer Service for lead times.

				S	upport WI	
Available Pi	tch Diameter	Available Bore Sizes				
in	mm	U.S. Sizes		Metric Sizes		
111	111111	Round in	Square in	Round mm	Square mm	
6.3	160	1-7/16 2	1.5 2.5		40 60	

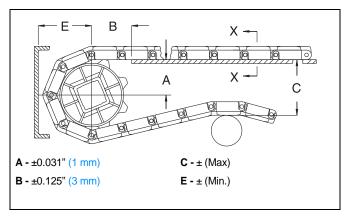


Conveyor Frame Dimensions

Regardless of type or configuration, all conveyors using Intralox belts have some basic dimensional requirements. Specifically, implement dimensions "A", "B", "C" and "E" listed in the following table in any design.

For general applications and applications where end transfer of tip-sensitive product is not critical, use the "A" dimension at the bottom of the range.

Conveyor frame dimensions are established using the top of the roller as the top of the belt and the bottom of the module as the bottom of the belt. "B" dimension is based on a 0.5 in $(12.7 \, \text{mm})$ thick carryway.



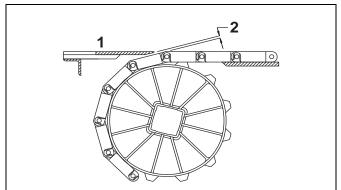
Spr	ocket Des	scription	Α		В		С		E	
Pitch D	Diameter	No. Teeth	Range (Botto	m to Top)	to Top) in mm		in	mm	in	mm
in	mm	No. reem	in	mm			ın	mm	1111	mm
	DIRECTDRIVE™ STACKER									
6.3	160	13	2.75-2.84	70-72	2.51	64	6.27	159	3.49	89



Dead Plate Gap

Where there is a transfer point from a belt without finger transfer plates to a dead plate, there should be a gap between the surfaces to allow for the chordal action of the belt. As the belt engages its sprockets, chordal action causes the modules to move past a *fixed* point (the tip of the dead plate) with *varying* clearances. The following table shows the minimum amount of gap which occurs at the "low point" of the modules if the tip of the dead plate just comes in contact with the "high point" as the modules pass.

In some installations, it may be desirable to keep the tip of the dead plate in contact with the belt, rather than allow a gap to occur. This can be done by hinging the mounting bracket for the dead plate. This allows the dead plate to move as the modules pass, but results in a small oscillating motion which may present tippage problems for sensitive containers or products.



1 - Top surface of dead plate

2 - Dead plate gap

Note: The top surface of the dead plate is typically 0.031 in (0.8 mm) above the belt surface for product transfer onto the belt, and 0.031 in (0.8 mm) below the belt surface for product transfer off the belt.

	Sprocket Description	Gap			
Pitch D	iameter	No. Teeth	in	mm	
in	mm	No. reem	""	11111	
6.3	160	13	0.091	2.3	



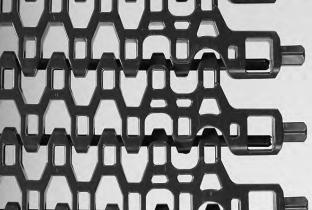
	Spi	ralox® Di	rectDrive™
	in	mm	2/2/
Pitch	1.5	38.1	200
/linimum Width ^a	13.5	343	
Maximum Width ^a	61.7	1567	
Vidth Increments	1.0	25.4	3.3
Opening Sizes (approx.)	0.52 x 0.39	13 x 10	=====
Open Area (Fully Extended)	449	%	2 2 7
/linimum Open Area (Collapsed)	269	%	- 55
linge Style	Оре	en	233
Drive Method	Hinge-[Driven	AP 6 0
Product	Notes		
Contact Intralox for precise be status before designing equip. The Intralox Spiral Program will requirements of most spiral app is strong enough for the applica Minimum sprocket indent from the outside belt edge may vary. determine exact placement.	ment or orderin help predict the s lications, ensuring tion. he inside belt edg	g a belt. strength g that the belt he and from	

- Uses headless rods.
- WARNING: Do not place fingers in or on this belt. Fingers can get trapped in belt openings, resulting in personal injury. This belt has pinch points due to the belt spreading and collapsing as it flexes to follow the conveyor path. Pinch points can trap fingers, hair, or clothing, causing personal injury. Do not wear loose clothing, loose gloves, or hand/finger jewelry when working near this belt. Call Customer Service for tags, flyers, and stickers containing this warning.

- See "Belt Selection Process" (page 5)
- See "Standard Belt Materials" (page 9)
- See "Special Application Belt Materials" (page 9)
- See "Friction Factors" (page 13)

Width dimension includes tooth protru	. vviatn dimension includes tooth protrusion.								
	Ве	It Data							
Belt Material	Standard Rod Material Ø 0.240 in (6.1 mm)	BS	Straight Belt Strength	Spira Strer		Temperatu (contin	•	W	Belt Weight
		lb/ft	kg/m	lbs.	kg	°F	°C	lb./ft.2	kg/m²
Acetal	Acetal	1600	2381	475	215	-50 to 200	-46 to 93	1.78	8.69
SELM	Acetal	500	744	375	170	-50 to 200	-46 to 93	1.46	7.13

a. Published spiral belt strengths and their method of calculation vary among spiral manufacturers. Please consult an Intralox Spiral Engineer for accurate comparison of spiral belt strengths.





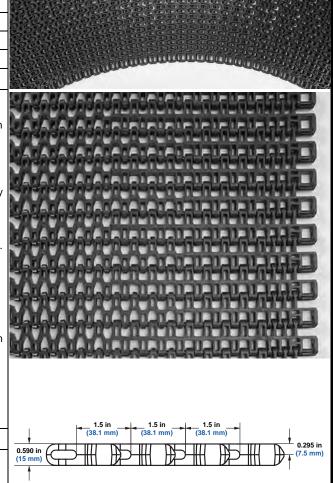
		Spiralo	x® 1.6
	in	mm	
Pitch	1.5	38.1	
Minimum Width ^a	13.5	343	1.7
Maximum Width ^a	61.7	1567	
Width Increments	0.5	12.7	
Opening Sizes (approx.)	0.52 x 0.39	13 x 10	
Open Area (Fully Extended)	449	%	
Minimum Open Area	269	%	
Hinge Style	Оре	en	
Drive Method	Center/Hing	ge-Driven	
.	. 4 N. 4		5% 5

- Contact Intralox for precise belt measurements and stock status before designing equipment or ordering a belt.
- Designed for friction drive, capstan spiral applications with a minimum turn radius of 1.6 times the belt width (measured from the inside edge).
- The Intralox Spiral Program will help predict the strength requirements of most spiral applications, ensuring that the belt is strong enough for the application.
- Minimum sprocket indent from the inside and outside edges of the belt may vary. Discuss exact placement with Intralox Technical Support Group.
- Relatively uniform open area across the width of the belt to aid in freezing and cooling product.
- Belt openings pass straight through the belt, making the belt easy to clean.
- Enhanced beam stiffness
- · Eliminates product contamination from metal wear debris
- Simple, quick repairs and changeovers
- Cage-friendly inside edge and frame-friendly outside edge
- Robust edge feature adds strength to the outside edge of the belt.
- · Uses headless rods.

WARNING: Do not place fingers in or on this belt. Fingers can get trapped in belt openings, resulting in personal injury. This belt has pinch points due to the belt spreading and collapsing as it flexes to follow the conveyor path. Pinch points can trap fingers, hair, or clothing, causing personal injury. Personnel should not wear loose clothing, loose gloves, or hand/finger jewelry when working near this belt. Call Customer Service for tags, flyers, and stickers containing this warning.

Additional Information

- See "Belt Selection Process" (page 5)
- See "Standard Belt Materials" (page 9)
- See "Special Application Belt Materials" (page 9)
- See "Friction Factors" (page 13)
- a. Width dimension includes tooth protrusion.



Belt Data									
Belt Material	Standard Rod Material Ø 0.240 in (6.1 mm)	BS	Straight Belt Strength	Spiral Belt Strength ^a		•	emperature Range (continuous)		Belt Weight
		lb./ft.	kg/m	lbs.	kg	°F	°C	lb./ft.²	kg/m²
Acetal	Acetal	1600	2381	475	215	-50 to 200	-46 to 93	1.78	8.69
SELM	Acetal	500	744	375	170	-50 to 200	-46 to 93	1.46	7.13

a. Published curved belt strengths and their method of calculation vary among spiral belt manufacturers. Please consult an Intralox Spiral Engineer for accurate comparison of curve belt strengths.



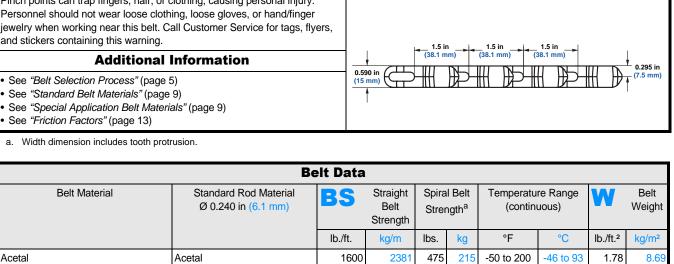
		Spiralox			
	in	mm			
Pitch	1.5	38.1			
Minimum Width ^a	13.5	343			
Maximum Width ^a	61.7	1567			
Width Increments	0.5	12.7			
Opening Sizes (approx.)	0.52 x 0.39	13 x 10			
Open Area (Fully Extended)	44%	6			
Minimum Open Area	26%	6			
Hinge Style	Оре	en			
Drive Method	Center/Hinç	Center/Hinge-Driven			
Produ	ct Notes				
 Contact Intralox for precise belt before designing equipment or of Designed for friction drive, capstar 	ordering a belt.				

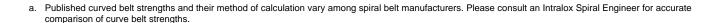
- radius of 2.2 times the belt width (measured from the inside edge).
- The Intralox Spiral Program will help predict the strength requirements of most spiral applications, ensuring that the belt is strong enough for the application.
- Minimum sprocket indent from the inside and outside edges of the belt may vary. Discuss exact placement with Intralox Technical Support Group.
- Relatively uniform open area across the width of the belt to aid in freezing and cooling product.
- Belt openings pass straight through the belt, making the belt easy to clean.
- Enhanced beam stiffness
- Eliminates product contamination from metal wear debris
- Simple, quick repairs and changeovers
- Cage-friendly inside edge and frame-friendly outside edge
- Robust edge feature adds strength to the outside edge of the belt.
- Uses headless rods.

WARNING: Do not place fingers in or on this belt. Fingers can get trapped in belt openings, resulting in personal injury. This belt has pinch points due to the belt spreading and collapsing as it flexes to follow the conveyor path. Pinch points can trap fingers, hair, or clothing, causing personal injury.

Acetal

SELM





500

375

170

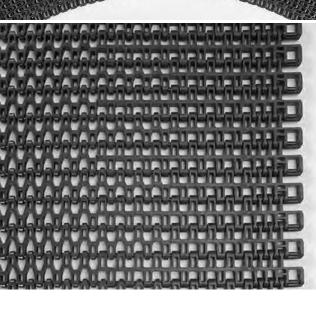
744

-50 to 200

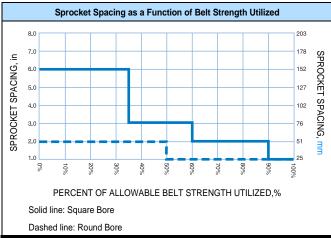
-46 to 93

1.46

7.13







	Acetal Sprocket ^a												
No. of	Nom.	Nom.	Nom.	Nom.	Nom. Nom.		Available Bore Sizes						
Teeth (Chordal	Pitch Dia.	Pitch Dia.	Outer Dia.	Outer Dia.	Hub Width	Hub Width	U.S. Sizes		Metric Sizes				
Action)	in	mm	in	mm	in	mm	Round in	Square in	Round mm	Square mm			
13 (2.97%)	6.2	157	6.4	163	1.2	30.5	1-7/16 2	1.5 2.5		40 60			



a. Contact Customer Service for lead times.

Support W									
Available Pit	ch Diameter	Available Bore Sizes							
in	mm	U.S.	Sizes	Metric Sizes					
in	111111	Round in	Square in	Round mm	Square mm				
6.3	160	1-7/16 2	1.5 2.5		40 60				
	<u> </u>		·	·					



		Overlapping Si
Available Height		Available Materials
in	mm	Available Waterials
0.50	12.7	Acetal
1.0	25.4	Acetal

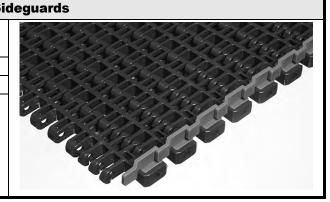
Note: Maximizes product carrying capacity: they fit into the very edge of the belt, with no indent.

Note: Assembly does not require "finger cuts" on the modules, so the belt's beam strength is uncompromised.

Note: Turn ratio for 0.50 in (12.7 mm) Overlapping Sideguards is 1.6.

Note: Makes the belt's outer edge more snag-resistant.

Note: Keeps small products from falling through belt gaps.





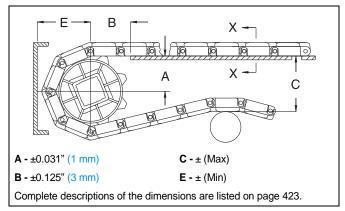
	Lane Dividers							
Availabl	e Height	Available Materials	A 2744					
in	mm	Available Materials						
0.75	19	Acetal, SELM						

Conveyor Frame Dimensions

Regardless of type or configuration, all conveyors using Intralox belts have some basic dimensional requirements. Specifically, dimensions "A", "B", "C" and "E" listed below should be implemented in any design.

For general applications and applications where end transfer of tip-sensitive product is not critical, use the "A" dimension at the bottom of the range.

Conveyor frame dimensions are established using the top of the roller as the top of the belt and the bottom of the module as the bottom of the belt. "B" dimension is based on a 0.5 in (12.7 mm) thick carryway.



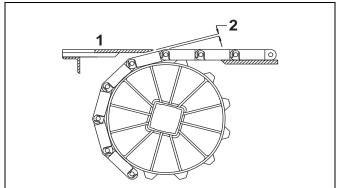
Spro	ocket Desc	ription	Α		В		С		E	
Pitch D	iameter	No. Teeth	Range (Bot	tom to Top)	in. mm		in.	mm	in.	mm
in.	mm	NO. IEEIII	in.	mm	111.				111.	
	SPIRALOX® DirectDrive									
6.3	160	13	2.75-2.84	70-72	2.51	64	6.27	159	3.49	89



Dead Plate Gap

Where there is a transfer point from a belt without finger transfer plates to a dead plate, there should be a gap between the surfaces to allow for the chordal action of the belt. As the belt engages its sprockets, chordal action causes the modules to move past a *fixed* point (the tip of the dead plate) with *varying* clearances. The table below shows the minimum amount of gap which occurs at the "low point" of the modules if the tip of the dead plate just comes in contact with the "high point" as the modules pass.

In some installations it may be desirable to keep the tip of the dead plate in contact with the belt, rather than allow a gap to occur. This can be done by hinging the mounting bracket for the dead plate. This allows the dead plate to move as the modules pass, but results in a small oscillating motion which may present tippage problems for sensitive containers or products.



1 - Top surface of dead plate

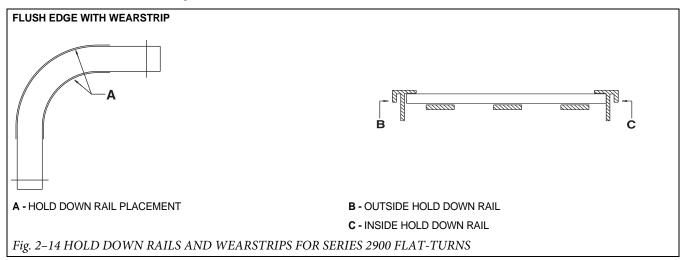
2 - Dead plate gap

Note: The top surface of the dead plate is typically 0.031 in. (0.8 mm) above the belt surface for product transfer onto the belt, and 0.031 in. (0.8 mm) below the belt surface for product transfer off the belt.

	Sprocket Description	Gap			
Pitch Diameter		No. Teeth	in.	mm	
in.	mm				
6.3	160	13	0.091	2.3	

HOLD DOWN RAILS AND WEARSTRIPS

Intralox recommends using continuous hold down rails through an entire turn, starting at a distance of 1X the belt width before the turn and ending 1X the belt width after the turn. This applies to both carryway and returnway. The use of hold down rails along both side of the belt over the full carryway is recommended but not mandatory. See "Custom wearstrips" (page 416).





BELT SELECTION INSTRUCTIONS

ENGINEERING PROGRAM ANALYSIS FOR SERIES 2900

Intralox Customer Service Technical Support Group can calculate the estimated belt pull for radius applications using Series 2900. The following information is required (refer to "Radius belt data sheet" (page 469)):

- Any environmental conditions which may affect the friction coefficient (for dirty or abrasive conditions, use higher friction coefficients than normal)
- Belt width
- Length of each straight run
- Turning angle of each turn

- Turn direction of each turn
- Inside turning radius of each turn
- Carryway/hold down rail material
- Product loading lb/ft² (kg/m²)
- Product back-up conditions
- Belt speed
- Elevation changes on each section
- Operating temperatures.

For assistance with radius belt and low-tension capstan drive spiral selections, contact Intralox Customer Service Technical Support Group. The **Engineering Program should be run to ensure that** the belt is strong enough for the radius application in question.

SERIES 2900

SERIES 2900 DESIGN GUIDE SUMMARY

For more information, see the Installation, Maintenance and Troubleshooting manual available from Intralox.

- A The minimum turning radius for Series 2900 is 1.6 times the belt width, measured from the inside edge for the standard edge.
- **B** The minimum straight run required between turns of opposing direction is 1.6 times the belt width. Shorter straight sections will lead to high wear on the edge guide rail and high pull stresses in the
- C There is no minimum straight run required between turns that are in the same direction.
- D The minimum final straight run (leading to the drive shaft) should be a minimum of 5 ft. (1.5 m). If 5 ft. (1.5 m) is not feasible, a shorter distance (down to 1.5 times belt width) would require a weighted take up in order to avoid sprocket wear and tracking problems. See "Special Take-Up Arrangements" (page 431).

- **E** The minimum length of the first straight run (immediately after the idle shaft) is 1.5 times the belt width. When shorter lengths are required (down to 1.0 times the width), an idle roller may be used in place of sprockets.
- F IDLE SHAFT
- G 1ST TURN
- H BELT WIDTH
- I BELT TRAVEL
- J 2ND TURN
- K DRIVE MOTOR
- L DRIVE SHAFT

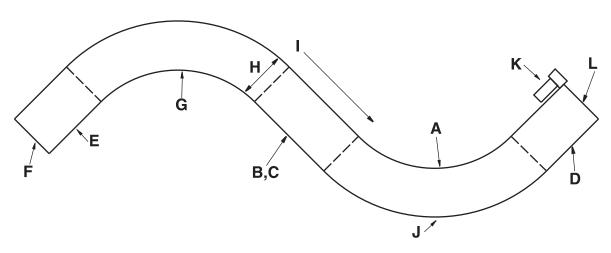
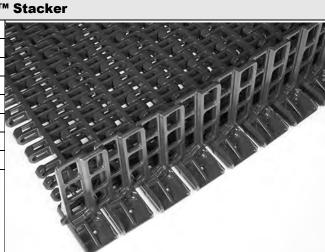


Fig. 2-15 TYPICAL 2-TURN RADIUS LAYOUT





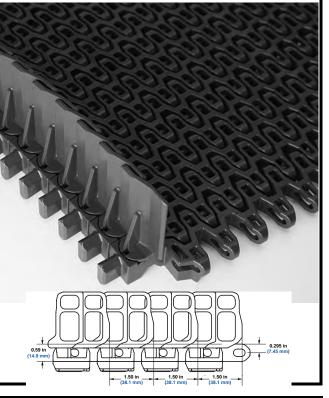
		DirectDrive™
	in	mm
Pitch	1.5	38.1
Minimum Width	12	304.8
Width Increments	1.00	25.4
Opening Sizes (approx.)	0.52 x 0.39	13.0 x 10.0
Open Area (Fully Extended)	44	!%
Minimum Open Area	26	6%
Hinge Style	Op	pen
Drive Method	Hinge-	Driven



- Contact Intralox for precise belt measurements and stock status before designing equipment or ordering a belt.
- Designed for stacker applications using the patented DirectDrive technology.
- The Intralox Spiral Program can help predict the strength requirements of most spiral applications, ensuring the belt is strong enough for the application. Contact our Technical Service Group for more information.
- Lightweight, strong belt with smooth surface grid for good product release.
- Relatively uniform open area across the width of the belt to aid in freezing and cooling of product.
- Belt openings pass straight through the belt, making the belt easy to clean.
- 60 mm, 80 mm, & 100 mm tier spacing available.
- Sideplates are permanently installed and cannot be replaced.
- Uses headless rods.

WARNING: Do not place fingers in or on this belt. Fingers can get trapped in belt openings, resulting in personal injury. This belt has pinch points due to the belt spreading and collapsing as it flexes to follow the conveyor path. Pinch points can trap fingers, hair, or clothing, causing personal injury. Do not wear loose clothing, loose gloves, or hand/finger jewelry when working near this belt. Call Customer Service for tags, flyers, and stickers containing this warning.

- See "Belt Selection Process" (page 5)
- See "Standard Belt Materials" (page 9)
- See "Special Application Belt Materials" (page 9)
- See "Friction Factors" (page 13)



Belt Data									
Belt Material	Standard Rod Material Ø 0.240 in (6.1 mm)	Straight Belt Strength		Spiral Belt Strength ^a		Temperature Range (continuous) ^b		W	Belt Weight
		lb./ft	kg/m	lbs.	kg	°F	°C	lb./ft.2	kg/m²
Acetal	Acetal	1600	2381	475	215	-50 to 200	-46 to 93	2.18	10.64

- a. Published spiral belt strengths and their method of calculation vary among spiral manufacturers. Please consult an Intralox Spiral Engineer for accurate comparison of spiral belt strengths.
- b. Sideflexing applications should not exceed 180 °F (82 °C).