

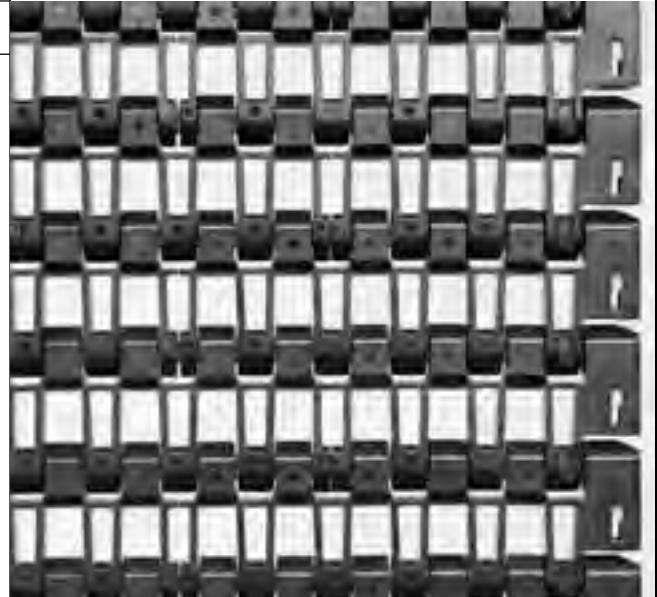
Flush Grid

	in.	mm
Pitch	1.50	38.1
Minimum Width	5	127
Width Increments	1.00	25.4
Opening Sizes (approx.)	0.62 × 0.50	15.7 × 12.7
	0.70 × 0.26	17.8 × 6.6
Open Area	37%	
Hinge Style	Closed	
Drive Method	Center/Hinge-Driven	



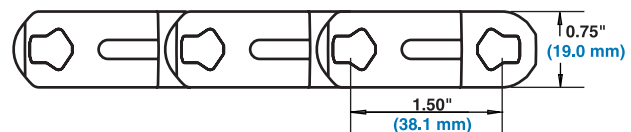
Product Notes

- Always check with Customer Service for precise belt width measurement and stock status before designing a conveyor or ordering a belt.
- Fully flush edges with highly visible, orange acetal SLIDELOX® rod retention feature.
- Robust design offers excellent belt and sprocket durability, especially in tough material handling applications.
- Abrasion resistant system lasts 2.5 to 3 times longer than conventional modular plastic belts.
- Sprockets have large lug teeth.
- Multi-rod hinge design significantly reduces cam shafting. Every row contains two rectangular rods.
- Abrasion resistant nylon used in modules and rods.
- Ultra abrasion resistant polyurethane sprockets.
- Steel is preferred carryway material.
- Chevron pattern or flat continuous carryway recommended. Straight, parallel wearstrips should not be used.
- Do not use on pusher conveyors.



Additional Information

- See "Belt selection process" (page 5)
- See "Standard belt materials" (page 18)
- See "Special application belt materials" (page 18)
- See "Friction factors" (page 31)



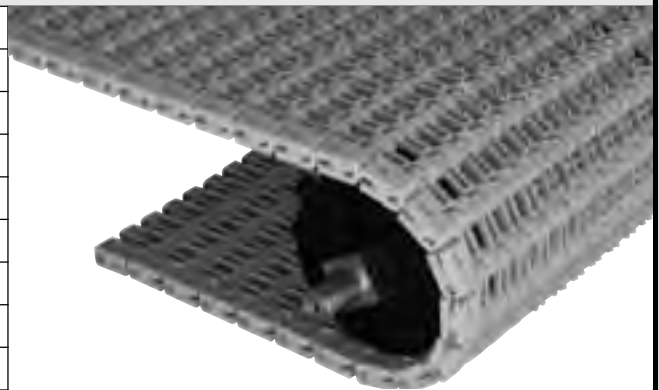
Belt Data

Belt Material	Standard Rod Material 0.25 × 0.17 in. (6.4 × 4.3 mm)	BS	Belt Strength		Temperature Range (continuous) ^a		W Belt Weight		Agency Acceptability ^b 1=White, 2=Blue, 3=Natural, 4=Grey						
			lb/ft	kg/m	°F	°C	lb/ft ²	kg/m ²	FDA (USA)	USDA Dairy ^c	CFA ^d	A ^e	J ^f	Z ^g	EU MC ^h
AR Nylon	Nylon	1800	2678	-50 to 212	-46 to 100	2.21	10.78	•							

a. Sprocket temperatures should be limited to -40 to 160 °F (-40 to 70 °C). Belt used in temperature range of 212 to 240 °F (100 to 116 °C) are not FDA compliant.
 b. Prior to Intralox's development of the Series 1700, USDA-FSIS Meat and Poultry discontinued publishing a list of acceptable new products designed for food contact. As of the printing of this literature, third party approvals are being investigated, but are not yet sanctioned by the USDA-FSIS.
 c. USDA Dairy acceptance requires the use of a clean-in-place system.
 d. Canada Food Inspection Agency
 e. Australian Quarantine Inspection Service
 f. Japan Ministry of Health, Labour, and Welfare
 g. MAF-New Zealand Ministry of Agriculture and Forestry. MAF acceptance requires the use of a clean-in-place system.
 h. European Migration Certificate providing approval for food contact according to EU Directive 2002/72/EC and all its amendments to date.

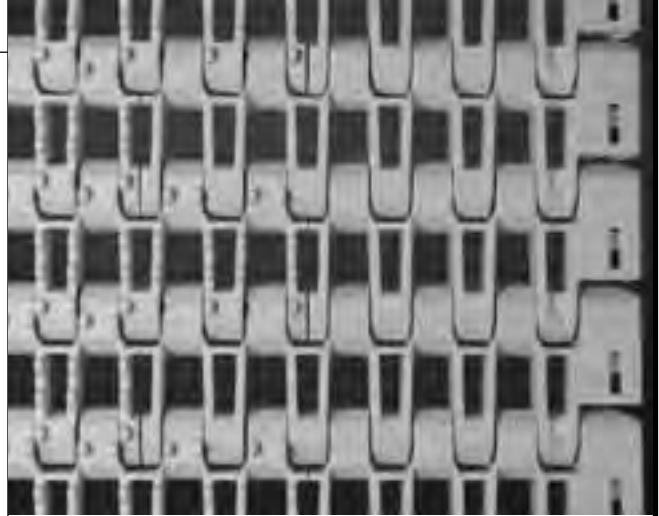
Flush Grid Nub Top™

	in.	mm
Pitch	1.50	38.1
Minimum Width	5	127
Width Increments	1.00	25.4
Opening Sizes (approx.)	0.70 × 0.26	18 × 7
Open Area	37%	
Product Contact Area	8%	
Hinge Style	Closed	
Drive Method	Center/Hinge-Driven	



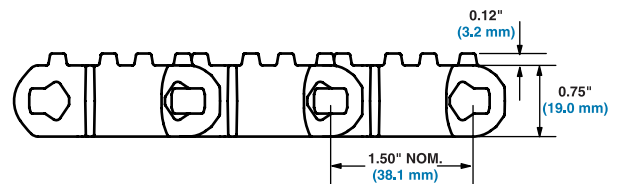
Product Notes

- Always check with Customer Service for precise belt width measurement and stock status before designing a conveyor or ordering a belt.
- Fully flush edges with highly visible, orange acetal SLIDELOX® rod retention feature.
- Robust design offers excellent belt and sprocket durability, especially in tough material handling applications.
- Abrasion resistant system lasts 2.5 to 3 times longer than conventional modular plastic belts.
- Sprockets have large lug teeth.
- Multi-rod hinge design significantly reduces cam shafting. Every row contains two rectangular rods.
- Abrasion resistant nylon used in modules and rods.
- Ultra abrasion resistant polyurethane split sprockets.
- Steel is preferred carryway material.
- Chevron pattern or flat continuous carryway recommended. Straight, parallel wearstrips should not be used.
- Do not use on pusher conveyors.
- Minimum 2 inch (51 mm) indent from flush edge.



Additional Information

- See "Belt selection process" (page 5)
- See "Standard belt materials" (page 18)
- See "Special application belt materials" (page 18)
- See "Friction factors" (page 31)



Belt Data

Belt Material	Standard Rod Material 0.25 × 0.17 in. (6.4 × 4.3 mm)	BS Belt Strength		Temperature Range (continuous) ^a		W Belt Weight		Agency Acceptability ^b 1=White, 2=Blue, 3=Natural, 4=Grey						
		lb/ft	kg/m	°F	°C	lb/ft ²	kg/m ²	FDA (USA)	CFA ^c	A ^d	J ^e	Z ^f	EU MC ^g	
AR Nylon	Nylon	1800	2678	-50 to 212	-46 to 100	2.21	10.78	•						

a. Sprocket temperatures should be limited to -40 to 160 °F (-40 to 70 °C). Belt used in temperature range of -212 to 240 °F (100 to 116 °C) are not FDA compliant.
 b. Prior to Intralox's development of the Series 1700, USDA-FSIS Meat and Poultry discontinued publishing a list of acceptable new products designed for food contact. As of the printing of this literature, third party approvals are being investigated, but are not yet sanctioned by the USDA-FSIS.
 c. Canada Food Inspection Agency
 d. Australian Quarantine Inspection Service
 e. Japan Ministry of Health, Labour, and Welfare
 f. MAF-New Zealand Ministry of Agriculture and Forestry. MAF acceptance requires the use of a clean-in-place system.
 g. European Migration Certificate providing approval for food contact according to EU Directive 2002/72/EC and all its amendments to date.

Transverse Roller Top™

	in.	mm
Pitch	1.475	37.5
Minimum Width	12	304.8
Width Increments	2.00	50.8
Min. Opening Size (approx.)	0.62 x 0.50	16 x 13
Max. Opening Size (approx.)	0.70 x 0.26	18 x 7
Open Area	26%	
Hinge Style	Closed	
Drive Method	Center/Hinge-Driven	



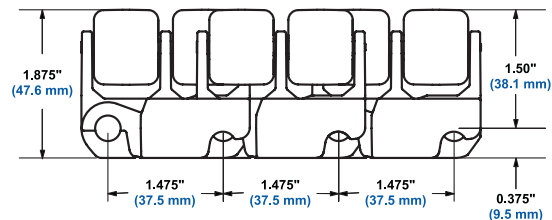
Product Notes

- Always check with Customer Service for precise belt width measurement and stock status before designing a conveyor or ordering a belt.
- Fully flush edges with SLIDELOX® rod retention feature.
- Robust design offers excellent belt and sprocket durability, especially in tough, material handling applications.
- Sprockets have large lug teeth.
- Ultra abrasion resistant polyurethane sprockets.
- Split sprockets are available.
- Roller axles are stainless steel for durability and long-lasting performance.
- Roller diameter is 0.95" (24.1 mm).
- Roller length is 0.825" (21 mm).
- Roller spacing is 1" (25.4 mm).
- Minimum return roller diameter is 6.0" (152.4 mm).



Additional Information

- See "Belt selection process" (page 5)
- See "Standard belt materials" (page 18)
- See "Special application belt materials" (page 18)
- See "Friction factors" (page 31)



Belt Data

Belt Material	Standard Rod Material Ø 0.312 in. (7.9 mm)	BS Belt Strength		Temperature Range (continuous)		W Belt Weight		Agency Acceptability: 1=White, 2=Blue, 3=Natural, 4=Grey						
		lb/ft	kg/m	°F	°C	lb/ft²	kg/m²	FDA (USA)	USDA-FSIS - Meat & Poultry	USDA Dairy ^a	CFA ^b	A ^c	J ^d	EU MC ^e
Polypropylene	Nylon	2200	3270	34 to 200	1 to 93	4.70	22.96	•					3	

a. USDA Dairy acceptance requires the use of a clean-in-place-system.
 b. Canada Food Inspection Agency
 c. Australian Quarantine Inspection Service
 d. Japan Ministry of Health, Labour, and Welfare
 e. European Migration Certificate providing approval for food contact according to EU Directive 2002/72/EC and all its amendments to date.

Sprocket and Support Quantity Reference Flush Grid and Flush Grid Nub Top™

Belt Width Range ^a		Minimum Number of Sprockets Per Shaft ^b	Wearstrips	
in.	mm		Carryway	Returnway
5	127	2	Straight, parallel wearstrips should not be used. Use chevron pattern or flat continuous carryway instead.	Straight, parallel wearstrips should not be used. Use chevron pattern or flat continuous carryway instead.
6	152	2		
7	178	3		
8	203	3		
9	229	3		
10	254	3		
12	305	3		
14	356	3		
15	381	3		
16	406	5		
18	457	5		
20	508	5		
24	610	5		
30	762	7		
32	813	7		
36	914	9		
42	1067	9		
48	1219	11		
54	1372	11		
60	1524	13		
72	1829	15		
84	2134	17		
96	2438	21		
120	3048	25		
144	3658	29		
For Other Widths, Use Odd Number of Sprockets ^c at Maximum 4 in. (102 mm) ⌀ Spacing			Maximum 6 in. (152 mm) ⌀ Spacing	Maximum 12 in. (305 mm) ⌀ Spacing

a. Belts are available in 1.00 in. (25.4 mm) increments beginning with 5 in. (127 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.

c. The center sprocket should be locked down. With only two sprockets, fix the sprocket on the drive journal side only. See Retainer Rings/Center Sprocket Offset chart on page 304 for lock down location.

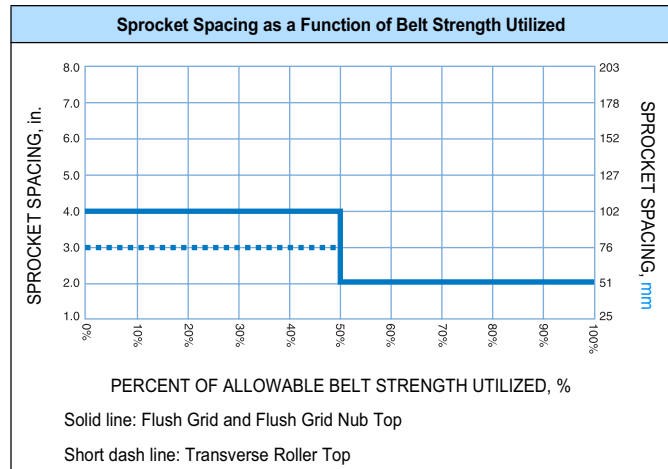
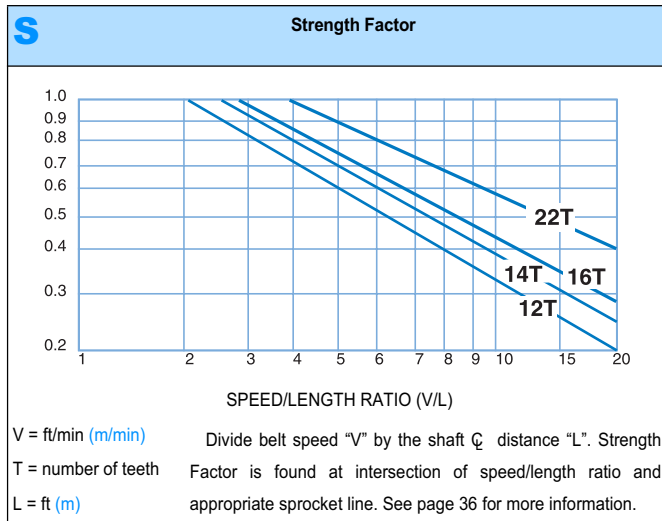
Sprocket and Support Quantity Reference Transverse Roller Top™

Belt Width Range ^a		Minimum Number of Sprockets Per Shaft ^b	Wearstrips	
in.	mm		Carryway	Returnway
5	127	2	2	2
6	152	2	2	2
7	178	3	2	2
8	203	3	2	2
9	229	3	3	2
10	254	3	3	2
12	305	3	3	2
14	356	3	3	3
15	381	3	3	3
16	406	5	3	3
18	457	5	3	3
For Other Widths, Use Odd Number of Sprockets ^c at Maximum 4 in. (102 mm) ⌀ Spacing			Maximum 6 in. (152 mm) ⌀ Spacing	Maximum 12 in. (305 mm) ⌀ Spacing

Sprocket and Support Quantity Reference Transverse Roller Top™

Belt Width Range ^a		Minimum Number of Sprockets Per Shaft ^b	Wearstrips	
in.	mm		Carryway	Returnway
20	508	5	4	3
24	610	5	4	3
30	762	7	5	4
32	813	7	5	4
36	914	9	5	4
42	1067	9	6	5
48	1219	11	7	5
54	1372	11	7	6
60	1524	13	8	6
72	1829	15	9	7
84	2134	17	11	8
96	2438	21	12	9
120	3048	25	15	11
144	3658	29	17	13
For Other Widths, Use Odd Number of Sprockets ^c at Maximum 4 in. (102 mm) \varnothing Spacing			Maximum 6 in. (152 mm) \varnothing Spacing	Maximum 12 in. (305 mm) \varnothing Spacing

- a. Belts are available in 1.00 in. (25.4 mm) increments beginning with 5 in. (127 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.
- c. The center sprocket should be locked down. With only two sprockets, fix the sprocket on the drive journal side only. See Retainer Rings/Center Sprocket Offset chart on page 304 for lock down location.



Ultra Abrasion Resistant Sprockets^a

No. of Teeth (Chordal Action)	Nom. Pitch Dia. in.	Nom. Pitch Dia. mm	Nom. Outer Dia. in.	Nom. Outer Dia. mm	Nom. Hub Width in.	Nom. Hub Width mm	Available Bore Sizes			
							U.S. Sizes		Metric Sizes	
							Round in.	Square in.	Round mm	Square mm
12 (3.41%)	5.8	147	5.85	149	1.5	38	1.5		40	
14 (2.51%)	6.7	170	6.80	173	1.5	38	1.5		40	
16 (1.92%)	7.7	196	7.74	197	1.5	38	1.5		40	
							2.5		60	
22 (1.02%)	10.5	267	10.59	269	1.5	38	2.5			

a. Contact customer Service for lead times.

a. Contact customer Service for lead times.

Ultra Abrasion Resistant Split Sprockets										
No. of Teeth (Chordal Action)	Nom. Pitch Dia. in.	Nom. Pitch Dia. mm	Nom. Outer Dia. in.	Nom. Outer Dia. mm	Nom. Hub Width in.	Nom. Hub Width mm	Available Bore Sizes			
							U.S. Sizes		Metric Sizes	
							Round in.	Square in.	Round mm	Square mm
14 (2.51%)	6.7	170	6.80	173	1.5	38		1.5		40
								2.5		60
16 (1.92%)	7.7	196	7.74	197	1.5	38		1.5		40
								2.5		60
22 (1.02%)	10.5	267	10.59	269	1.5	38		2.5		60
								3.5		



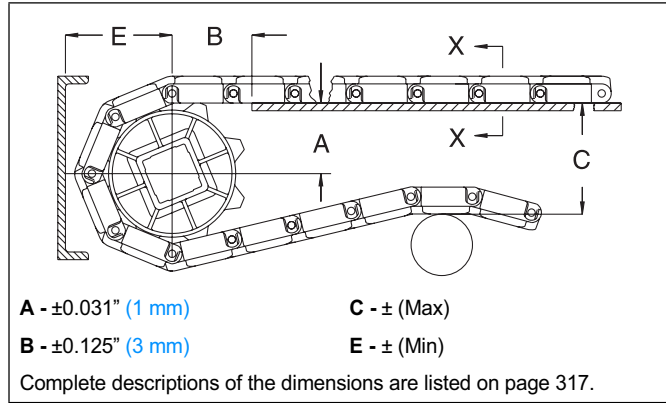
Streamline Flights		
Available Flight Height		Available Materials
in.	mm	
4.0	102	Nylon (AR)
6.0	152	
<p>Note: Minimum indent is 2.0 in (51 mm)</p> <p>Note: Flights can be cut down to any height required for a particular application.</p> <p>Note: Flight is smooth (streamline) on both sides.</p> <p>Note: Each flight rises out of the center of its supporting module, molded as an integral part. No fasteners are required.</p>		



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.

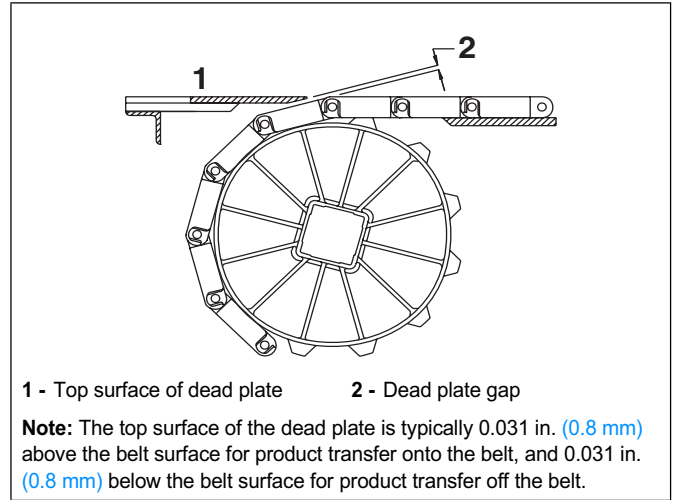


Sprocket Description			A		B		C		E	
Pitch Diameter		No. Teeth	Range (Bottom to Top)		in.	mm	in.	mm	in.	mm
in.	mm		in.	mm						
SERIES 1700 FLUSH GRID										
5.8	147	12	2.36-2.46	60-62	2.42	61	5.67	144	3.27	83
6.7	170	14	2.85-2.93	72-74	2.63	67	6.61	168	3.74	95
7.7	196	16	3.33-3.40	85-86	2.81	71	7.56	192	4.22	107
10.5	267	22	4.78-4.83	121-123	3.30	84	10.41	264	5.64	143
SERIES 1700 FLUSH GRID NUB TOP										
5.8	147	12	2.36-2.46	60-62	2.42	61	5.79	147	3.39	86
6.7	170	14	2.85-2.93	72-74	2.63	67	6.73	171	3.86	98
7.7	196	16	3.33-3.40	85-86	2.81	71	7.68	195	4.34	110
10.5	267	22	4.78-4.83	121-123	3.30	84	10.53	267	5.76	146
SERIES 1700 TRANSVERSE ROLLER TOP										
5.8	147	12	2.42-2.52	61-64	2.36	60	6.92	176	4.46	113
6.7	170	14	2.91-3.00	74-76	2.56	65	7.87	200	4.93	125
7.7	196	16	3.40-3.47	86-88	2.73	69	8.81	224	5.41	137
10.5	267	22	4.84-4.90	123-124	3.20	81	11.67	296	6.83	173

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.



Sprocket Description			Gap	
Pitch Diameter		No. Teeth	in.	mm
in.	mm			
5.8	147	12	0.099	2.5
6.7	170	14	0.085	2.2
7.7	196	16	0.074	1.9
10.5	267	22	0.054	1.4