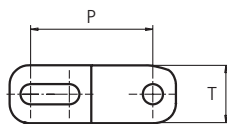
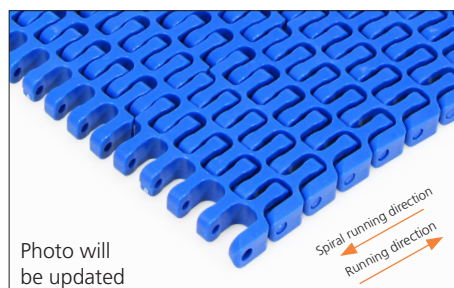




Plastic Modular Belt

Series **uni Flex ASB** Type **43% Open (Radius 1.6)**



Sideflexing belt
Nominal pitch: 25.4 mm (1.00 in)
Surface type: Flat
Surface opening: 43%
Backflex radius: 25.0 mm (0.98 in)
Pin diameter: 4.0 mm (0.16 in)
Min. inside radius: 1.6 x belt width

Belt material & color	POM-D B		mm	in
Pin and lock material & color	PA6.6 B	P (Nominal)	25.4	1.00
		T	12.0	0.47

Non standard material and color: See uni Material and Color Overview.

Alternative pin and lock systems and materials: Contact Customer Service.

Belt width		Permissible tensile force (Belt/pin material)				Permissible tensile force (Belt/pin material)				Belt weight (Belt/pin material)				*Min. No. drive sprocket per shaft	Number of wear strips (Min. No.)	
		POM-D/PA6.6				PP/PA6.6				POM-D/PA6.6		PP/PA6.6			**Carry (pcs)	**Return (pcs)
		Straight sections		Curve sections		Straight sections		Curve sections								
mm	in	N	lbf	N	lbf	N	lbf	N	lbf	kg/m	lb/ft	kg/m	lb/ft			
149	5.9	2801	630	1200	270	1863	419	720	162	1.2	0.82	0.8	0.52	2	2	2
226	8.9	4249	955	1200	270	2825	635	720	162	1.9	1.25	1.2	0.79	2	2	2
302	11.9	5678	1276	1200	270	3775	849	720	162	2.5	1.66	1.6	1.06	3	3	2
379	14.9	7125	1602	1200	270	4738	1065	720	162	3.1	2.09	2.0	1.32	3	3	2
455	17.9	8554	1923	1200	270	5688	1279	720	162	3.7	2.51	2.4	1.59	5	4	2
531	20.9	9983	2244	2040	459	6638	1492	1224	275	4.4	2.93	2.8	1.86	5	4	2
608	23.9	11430	2570	2040	459	7600	1708	1224	275	5.0	3.35	3.2	2.12	5	5	3
684	26.9	12859	2891	2040	459	8550	1922	1224	275	5.6	3.77	3.6	2.39	5	5	3
761	30.0	14307	3216	2040	459	9513	2138	1224	275	6.2	4.19	4.0	2.66	7	6	3
837	33.0	15736	3537	2040	459	10463	2352	1224	275	6.9	4.61	4.4	2.93	7	6	3
914	36.0	17183	3863	2040	459	11425	2568	1224	275	7.5	5.04	4.8	3.19	7	7	4
990	39.0															

Additional non-standard belt widths are available in steps of 12.7 mm (0.50 in)

General belt tolerance is +0/-0.4% at 23°C/73°F. For exact belt width contact Customer Service. Non standard belt width on request

*Max. Load per Drive Sprocket. Belt material: POM-D 2000 N (450 lbf), PP 1100 N (247 lbf)

**Max. Spacing between wear strips, Carry: 152.0 mm (6.00 in); Return: 304.0 mm (12.00 in)

= Single Link

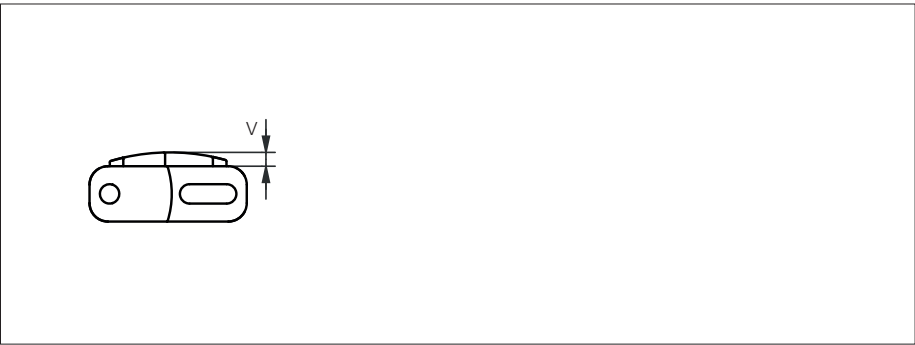
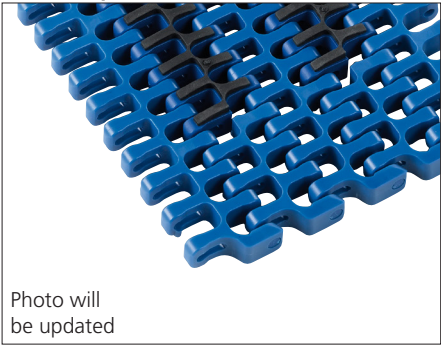
STANDARD

SIDE FLEXING

PITCH 25.4 MM/1.00 IN

Accessories

Rubber Top

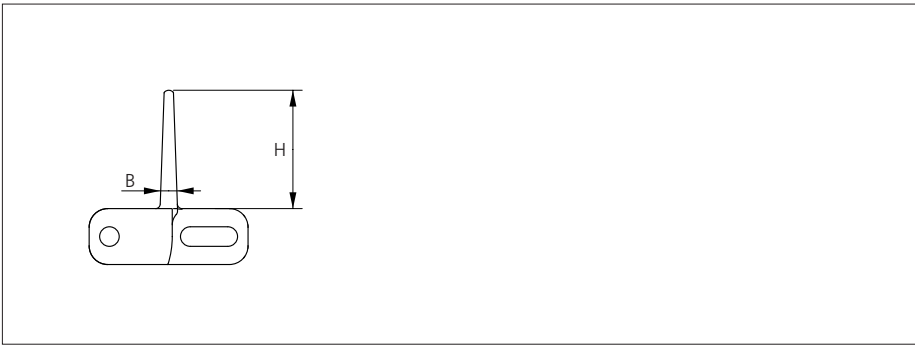
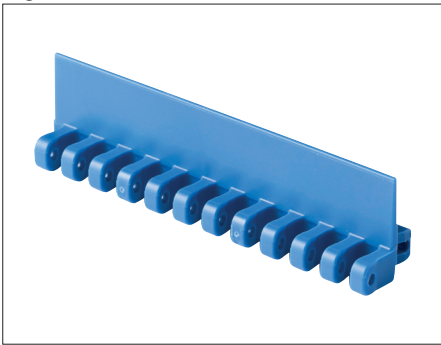


Type	Belt material & color	Rubber material, hardness & color	V	
			mm	in
Curved	PP B	TPE-S Shore A60 K	3.0	0.12

uni Flex ASB Rubber Top Radius 2.2: Indent min. 44.0 mm (1.73 in) and Increment 12.7 mm (0.50 in).
Conditional warning: Rubber Top indents between 44mm and 100mm may affect the collapse factor. Please contact your application engineer for approval.

Accessories

Flight

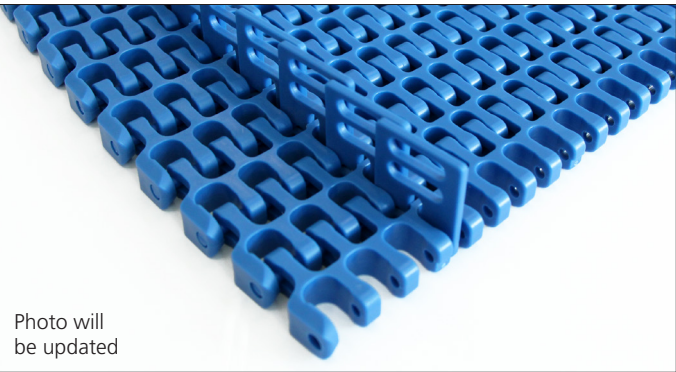


Type	Flight Material & color	B		H		Link size	Width	
		mm	in	mm	in		mm	in
Flat	POM-D B	3.7	0.15	25.4	1.00	K600	151.0	5.94

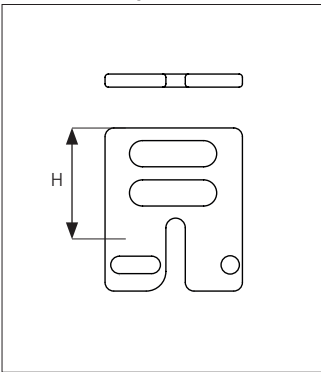
Min. indent for Flight is: 44.0 mm (1.73 in) and Increment 12.7 mm (0.50 in). Non Standard material and color: See uni Material and Color Overview.
Conditional warning: Rubber Top indents between 44mm and 100mm may affect the collapse factor. Please contact your application engineer for approval.

Accessories

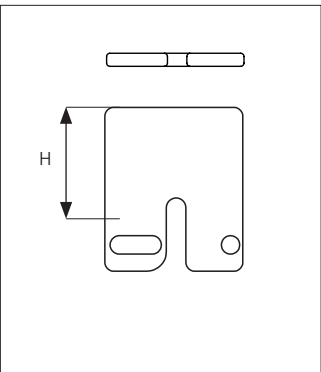
Side Guard



Side Guard Open



Side Guard Closed

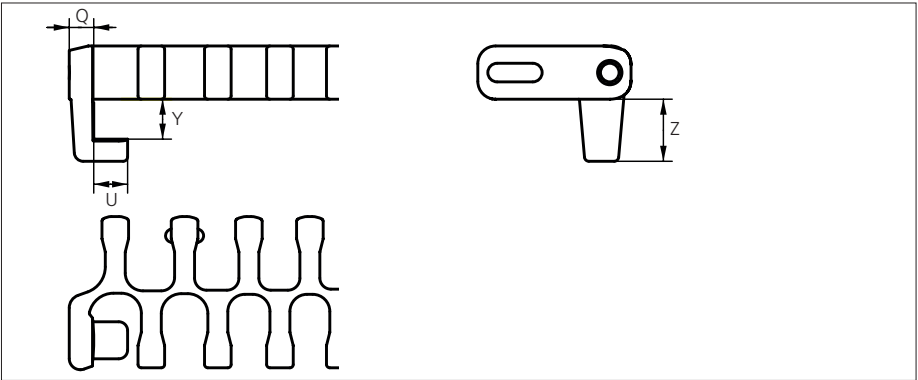
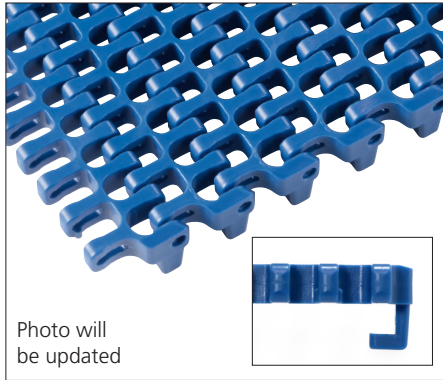


Type	Side Guard Material & color	H	
		mm	in
Side Guard Closed	POM-D B	10.0 25.4	0.39 1.00
Side Guard Open	POM-D B	25.4	1.00

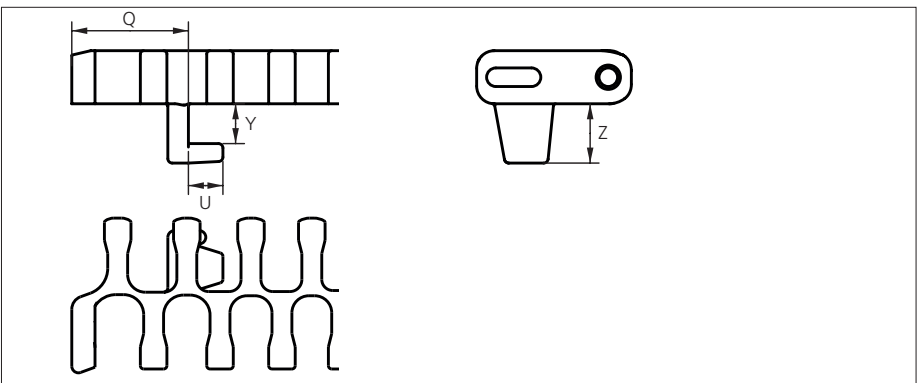
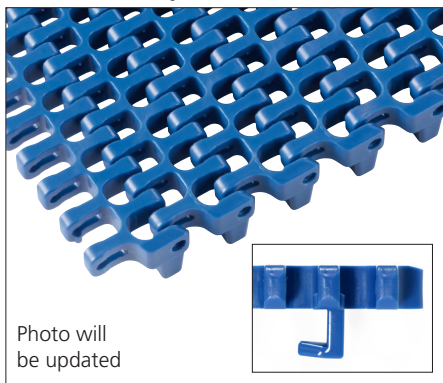
Min. indent for Side Guard is: 44.0 mm (1.73 in) and Increment 12.7 mm (0.50 in). Non Standard material and color: See uni Material and Color Overview.
Conditional warning: Rubber Top indents between 44mm and 100mm may affect the collapse factor. Please contact your application engineer for approval.

Accessories

Bottom Tab



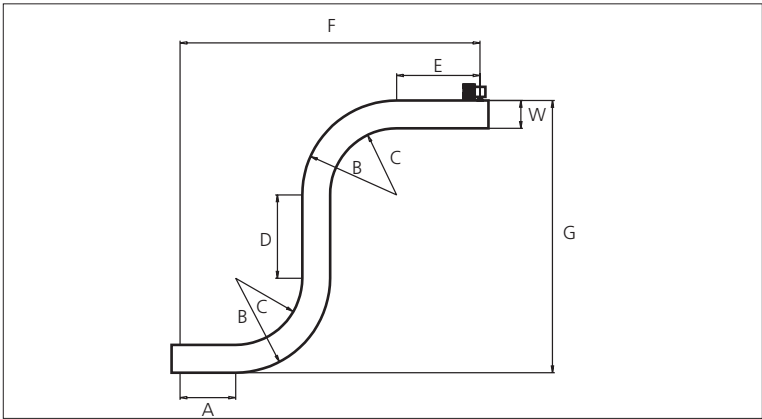
Bottom Tab IL Style



Type	Tab Material & color	Q		U		Y		Z	
		mm	in	mm	in	mm	in	mm	in
Bottom Tab	POM-D B	5.5	0.22	7.5	0.30	9.0	0.35	14.0	0.55
Bottom Tab IL Style	POM-D B	26.5	1.04	7.8	0.30	9.0	0.35	13.4	0.53

Non Standard material and color: See uni Material and Color Overview.
Tab position is available **only** at Radius 2.2.

Design Guidelines



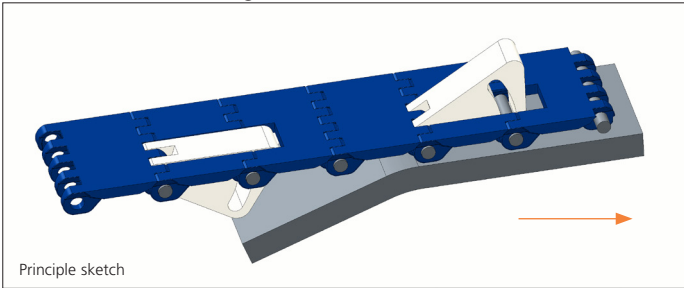
	uni Flex ASB R2.2	uni Flex ASB R1.6 (inside)
A	min. 1.5 x W	min. 1.5 x W
B	min. 3.2 x W	min. 2.6 x W
C	min. 2.2 x W	min. 1.6 x W
D	min. 2.0 x W	min. 2.0 x W
E	min. 2.0 x W	min. 2.0 x W
F	min. 8.9 x W	min. 7.7 x W
G	min. 8.4 x W	min. 7.2 x W

uni Flex ASB 43% Open Radius 1.6 can not be used in conveyors with both left and right turning curves.

All curves have to turn in the same direction. For min. conveyor dimensions please refer to sketch and diagram.

Accessories

Non Standard uni AmFlight



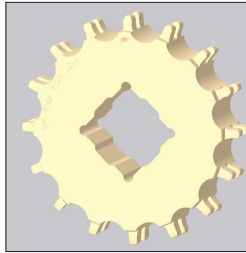
Principle sketch

Sprocket

No. of teeth	Bore size										Overall diameter		Pitch diameter		Hub diameter		Dimension A		Dimension B		Double row/Two way	 PA6
	Pilot Bore	in	0.79	0.98	1.00	1.18	1.25	1.50	1.57	2.36												
		mm	20.0	25.0	25.4	30.0	31.8	38.1	40.0	60.0	mm	in	mm	in	mm	in	mm	in	mm	in		
Z07	✔		●	●	●						58.0	2.28	58.5	2.30	40.8	1.61	20.4	0.80	35.2	1.39	✔	✔
Z09	✔			● ■	● ■	●	●				75.0	2.95	74.3	2.93	57.8	2.28	28.9	1.14	43.1	1.70	✔	✔
Z12	✔			● ■	●	●	●	■			100.0	3.94	98.1	3.86	82.8	3.26	41.4	1.63	55.1	2.17	✔	✔
Z15	✔				●	●	●	■	● ■	■	124.6	4.91	122.2	4.81	107.4	4.23	53.8	2.12	67.1	2.64	✔	✔
Z18	✔					●	●	● ■	● ■	■	149.3	5.88	146.3	5.76	132.1	5.20	66.0	2.60	79.2	3.12	✔	✔

■ Machined sprocket

● Machined sprocket



Other sprocket sizes are available upon request.

Other bore sizes on sprockets are available upon request.

Round bores are always delivered with keyway.

Max. load per sprocket shown does not take bore size into account.

Please also ensure that sufficient size shaft is chosen for corresponding load.

Width of tooth = Single row + double row: 7.0 mm (0.28 in)

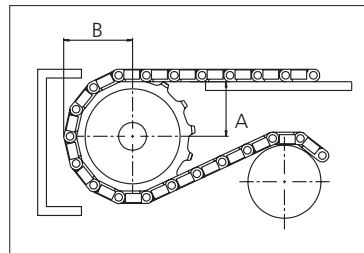
Width of One-part sprocket = Double row: 30.0 mm (1.18 in)

uni UltraClean One-Part and Two-Part Sprocket

No. of teeth	Bore size		Overall diameter		Pitch-diameter		Hub-diameter		Dimension A		Dimension B		Single row/Two way	Moulded
	in	1.57												
	mm	40.0	mm	in	mm	in	mm	in	mm	in	mm	in		
Z12	■		100.0	3.94	98.1	3.86	80.0	3.15	41.4	1.63	55.1	2.17	✓	✓
Z15	■		124.6	4.91	122.2	4.81	80.0	3.15	53.8	2.12	67.1	2.64	✓	✓
Z18	■		149.3	5.88	146.3	5.76	80.0	3.15	66.0	2.60	79.2	3.12	✓	✓

■ Moulded uni UltraClean OnePart Sprocket

■ Moulded uni UltraClean TwoPart Sprocket



Width of UltraClean Two-part sprocket

= Single row: 44.0 mm (1.73 in)

Width of UltraClean Two-part tooth

= Single double row: 7.0 mm (0.28 in)

uni Retainer Rings: See uni Retainer Ring data sheet.

For correct sprocket position: See uni Assembly

Instructions for uni Flex ASB.

For more detailed sprocket information, contact Customer Service.



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