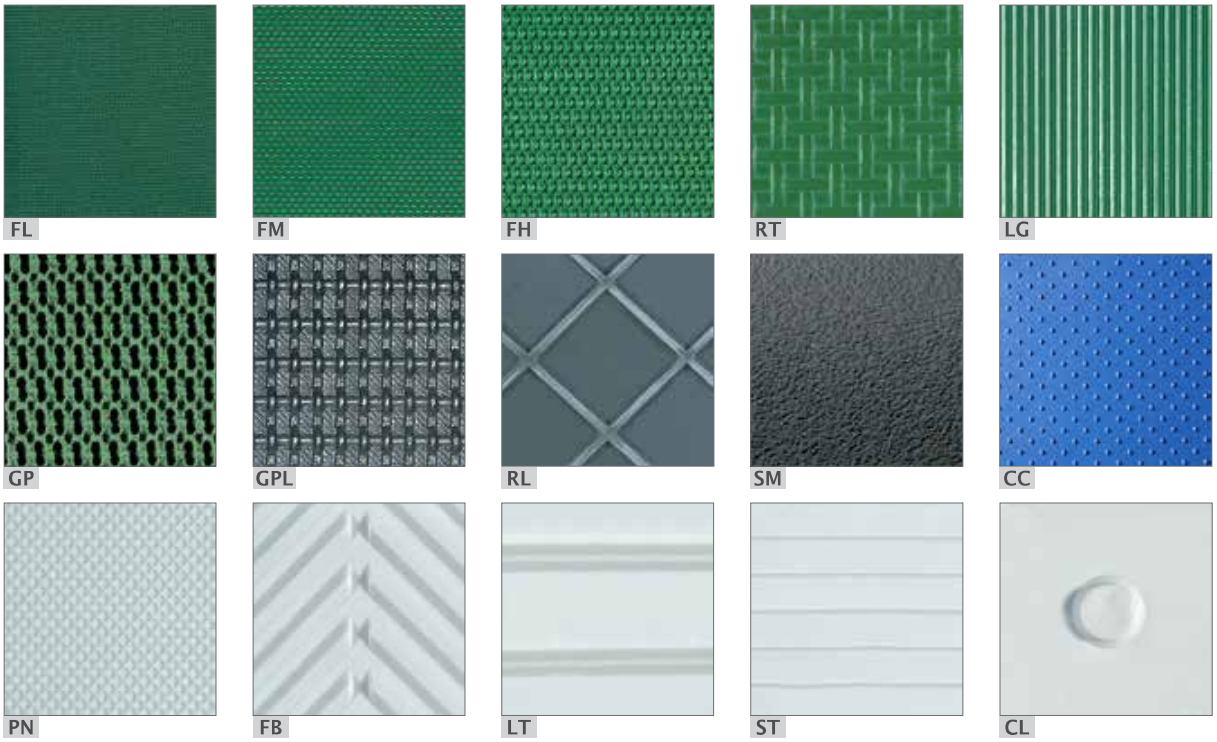
Production program

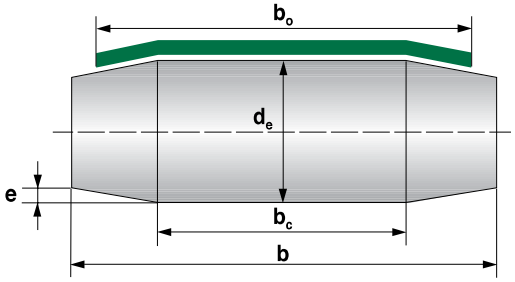
Type	Food compliance (1)	Permanent antistatic	Low noise fabric on driving surface (LdB) (2)	Colour of the conveing surface	Total thickness	Weight	Minimum diameter (3)	Pull for 1% elongation	Max. admissible pull	Min. temperature resistance	Max. temperature resistance	Comparative coefficient of friction (4)	Maximum production width
					mm	kg/m²	mm	N/mm	N/mm	[°C]	[°C]	mm	mm
PVC													
1M6 U0-V3 A N		✓		●	0.8	0.8	20	6	6	-10	60	LF	3500
1M6 U0-V5	✓	✓	✓	●	1.0	1.1	20	6	6	-10	60	MF	3000
1M6 U0-V5 W	✓	✓	✓	○	1.0	1.1	20	6	6	-10	60	MF	3000
1M6 U0-V5 N		✓	✓	●	1.0	1.1	20	6	6	-10	60	LF	3000
1M6 U0-V5 FM N		✓	✓	●	1.1	1.0	30	6	6	-10	60	LF	3000
1M6 U0-V5 SM N		✓	✓	●	1.0	1.1	20	6	6	-10	60	LF	2000
1M6 V5-V5	✓	✓		●	1.8	2.0	30	6	6	-10	60	MF	3000
1M12 U0-V5 N		✓	✓	●	1.8	2.0	30	8	12	-10	60	LF	2000
1M12 U0-V5 FH N		✓	✓	●	2.0	2.1	30	8	12	-10	60	MF	2000
1M12 U0-V5 SM N		✓	✓	●	2.1	2.0	30	8	12	-10	60	LF	2000
2T5 0-V-0	✓	✓		○	1.6	1.7	20	5	10	-10	60	LF	2000
2MT5 U0-V3 N		✓	✓	●	1.8	2.0	20	6	12	-10	60	LF	3000
2MT5 U0-V3 FH N		✓		●	2.1	1.9	30	6	12	-10	60	MF	2000
2MT5 U0-V3 SM N		✓	✓	●	1.9	2.0	20	6	12	-10	60	LF	2000
2M8 U0-V-U0	✓	✓		○	1.5	1.5	30	8	16	-10	60	LF	3000
2T8 U0-V-0	✓			○	1.4	1.4	30	8	16	-10	60	LF	3000
2M8 U0-V5 A	✓	✓		●	2.0	2.3	30	8	16	-10	60	MF	3500
2M8 U0-V5 W	✓			○	2.0	2.3	30	8	16	-10	60	MF	3000
2M8 U0-V5 PN W	✓			○	2.2	2.3	30	8	16	-10	60	MF	2000
2M8 U0-V5 blue	✓			●	2.0	2.3	30	8	16	-10	60	MF	3000
2M8 U0-V5 FM	✓	✓		●	2.1	2.3	30	8	16	-10	60	MF	3000
2M8 U0-V5 FM N		✓		●	2.1	2.3	30	8	16	-10	60	HF	3000
2M8 U0-V5 PS GR		✓		●	2.3	2.3	30	8	16	-10	60	HF	500
2M8 U0-V5 RT GR		✓		●	2.2	2.3	30	8	16	-10	60	HF	2000
2M8 V5-V5 W	✓			○	2.5	3.0	50	8	16	-10	60	MF	2000
2M8 V5-V5 blue	✓			●	2.5	3.0	50	8	16	-10	60	MF	2000
2M8 U0-V17 GP		✓		●	5.2	3.7	50	8	16	-10	60	HF	2000
2M10 U0-V10	✓			●	2.8	3.3	50	10	20	-10	60	MF	3000
2M10 U0-V10 W	✓			○	2.8	3.3	50	10	20	-10	60	MF	3000
2M10 U0-V10 blue	✓			●	2.8	3.1	50	10	20	-10	60	MF	3000
2M12 U0-V-U0 GR		✓	✓	●	1.7	1.6	40	12	24	-10	60	LF	3000
2T12 U0-V0				●	2.5	2.6	80	12	24	-10	60	LF	2000
2M12 U0-V3		✓	✓	●	1.9	2.1	40	12	24	-10	60	LF	3000
2M12 U0-V3 N		✓	✓	●	1.9	2.1	40	12	24	-10	60	LF	3000
2M12 U0-V7 LG		✓	✓	●	2.4	2.4	40	12	24	-10	60	HF	2000
2M12 U0-V8 RT		✓	✓	●	2.3	2.4	40	12	24	-10	60	HF	2000
2M12 U0-V10 A	✓	✓	✓	●	2.5	2.9	50	12	24	-10	60	MF	3500
2M12 U0-V10 W	✓		✓	○	2.5	2.9	50	12	24	-10	60	MF	3000
2M12 U0-V10 N		✓	✓	●	2.9	3.5	60	12	24	-10	60	LF	3000
2M12 U0-V10 RT	✓	✓	✓	●	2.6	2.6	50	12	24	-10	60	HF	2000
2T12 U0-V10	✓	✓		●	2.5	2.9	50	12	24	-10	60	MF	3000
2T12 U0-V10 W	✓			○	2.5	2.9	50	12	24	-10	60	MF	3000
2M12 V5-V10	✓			●	3.0	3.5	80	12	24	-10	60	MF	2000
2M12 V5-V10 W	✓			○	3.1	2.8	80	12	24	-10	60	MF	2000
2T12 V5-V10 W	✓			○	3.0	3.5	80	12	24	-10	60	MF	2000
2T12 V5-V10 blue	✓			●	3.1	3.5	80	12	24	-10	60	MF	2000
2M12 U0-V15 W	✓		✓	○	3.0	3.4	80	12	24	-10	60	MF	3000
2M12 U0-V15 CL W	✓		✓	○	5.5	3.5	80	12	24	-10	60	MF	2000
2M12 U0-V15 FB W	✓		✓	○	4.1	3.5	80	12	24	-10	60	MF	2000
2M12 U0-V15 GPL N		✓	✓	●	3.8	3.5	60	12	24	-10	60	HF	2000
2M12 U0-V15 ST W	✓		✓	○	3.6	3.5	80	12	24	-10	60	MF	2000
2M12 U0-V20 GP		✓	✓	●	5.5	3.9	50	12	24	-10	60	HF	2000
2T12 U0-V20 GP W	✓			○	5.5	3.9	50	12	24	-10	60	HF	2000
2T20 V10-V10 W A	✓	✓		○	4.5	5.4	120	20	40	-10	60	MF	2000
2M20 U0-V25 RT	✓		✓	●	5.0	5.7	100	20	40	-10	60	MF	2000
3T18 U0-V0				●	3.7	3.9	120	18	36	-10	60	LF	2000
3M18 U0-V15 A	✓	✓	✓	●	4.2	4.9	100	18	36	-10	60	MF	3500
3M18 U0-V15 W	✓		✓	○	4.2	4.9	100	18	36	-10	60	MF	3000
3T18 U0-V15	✓	✓		●	4.2	4.9	100	18	36	-10	60	MF	3000
3T18 U0-V15 W	✓			○	4.2	5.0	100	18	36	-10	60	MF	3000
3T18 V10-V20 W	✓	✓		○	6.7	7.9	100	18	36	-10	60	MF	2000
3T30 V10-V10 W	✓	✓		○	6.3	7.4	200	30	60	-10	60	MF	2000
3M30 U0-V25 RT	✓		✓	●	6.6	7.8	200	30	60	-10	60	MF	2000

Surface patterns



Configuration of the pulleys

Formulas to determine the values:	
Pulley width	$b=1,1 \cdot b_0+10$ (mm)
Taper	$e=(d_e+100)/500$ (mm)
Cylindrical section according to the total width of the pulley	$b_c=b/2$ (mm)



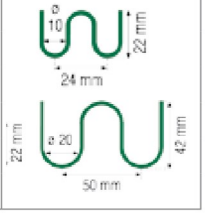
Legenda

b= pulley width
b_c= width of the cylindrical section
b_0= belt width
d_e= external diameter
e= taper

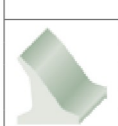
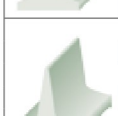
Lateral profiles, longitudinal guides and sidewalls

CHIORINO manufactures **profiles, guides and sidewalls** from special PVC and polyurethane compounds in various Sh.A hardnesses giving high flexibility and resistance to abrasion and oils.
They have been designed to be perfectly compatible with the conveyor belt covers and are fitted by means of different vulcanising systems which guarantee a perfect and long lasting bond using equipment normally available in all the fabrication workshops of CHIORINO.

- **Standard colours**: see tables. Special colours can be supplied on request.
- **Minimum pulley diameters**: the values of the minimum pulley diameters are meant as a guide only and they are based on a 2 mm thick belt, working at room temperature. The minimum pulley values which refer to K, KN and S profiles are valid only when fitted on the driving surface of the belt.
- In case of **back-flexing** (for K and S guides) diameters have to be increased by 50%.
- It is not advisable to fit KN guides longitudinally on the conveying surface. For the fitting of K, KN e S profiles please contact the CHIORINO Technical Support.

Profile	Type	Sizes øxh	Thickness	Minimum diameter (1)	Hardness	Standard colours		Notes	
		[mm]	[mm]	[mm]	[Sh.A]	green	white		
POLYURETHANE SIDEWALLS									
	**C-U 10/20**	10 x 20	1.7	50	85	✓	✓	Polyurethane sidewalls, without base, fitted longitudinally. They allow the use of small pulley diameters.	The drawings below show width and pitch of the sidewalls.
	C-U 10/30	10 x 30	1.7	70	85	✓	✓		
	C-U 10/40	10 x 40	1.7	100	85	✓	✓		
	C-U 10/50	10 x 50	1.7	120	85	✓	✓		
	C-U 20/60	20 x 60	1.7	150	85	✓	✓		
	C-U 20/80	20 x 80	1.7	190	85	✓	✓		
PVC SIDEWALLS WITH TEXTILE CORE									
	**CV-T 10/20**	10 x 20	1.7	60	60	✓	✓	Sidewalls with textile core, purposely designed to be applied on PVC belts on any thickness and number of plies for use in special applications (e.g. in food-processing, agriculture or for general conveying of loose bulk products).	
	CV-T 10/30	10 x 30	1.7	80	60	✓	✓		
	CV-T 10/40	10 x 40	1.7	110	60	✓	✓		
	CV-T 10/50	10 x 50	1.7	140	60	✓	✓		
	CV-T 20/60	20 x 60	3.4	170	60	✓	✓		
	CV-T 20/80	20 x 80	3.4	210	60	✓	✓		

(1) Minimum pulley diameters referred to environment conditions of 20°C.

Profile	Type		Dim. bxh [mm]	Hardness [Sh.A]		Base		Standard colours				Minimum pitch [mm]		Long. min. diam. [mm] (1)		Transv. min. diam. [mm] (1)		Notes
	PVC	PU		PVC	PUR	flat	grooved					long.	transv.	PVC	PU	PVC	PU	
	K6	K6 U	6 x 3	60	70	✓		✓	✓			40	40	30	35	30	30	Profiles mainly fitted on conveyor belts as guides.
	K6 TR	–	6 x 3	60	–	✓					✓	40	40	25	–	30	–	
	K8	K8 U	8 x 5	60	70	✓	✓	✓	✓			40	40	40	50	40	50	
	K8 TR	–	8 x 5	60	–	✓	✓				✓	40	40	30	–	40	–	
	K10	K10 U	10 x 6	60	70	✓	✓	✓	✓	✓		40	40	60	65	50	50	
	K10 TR	–	10 x 6	60	–	✓	✓				✓	40	40	50	–	50	–	
	K13	K13 U	13 x 8	60	70	✓	✓	✓	✓			45	45	80	85	80	80	
	K13 TR	–	13 x 8	60	–	✓	✓				✓	45	45	70	–	80	–	
	K17	K17 U	17 x 11	60	70	✓	✓	✓	✓			45	45	120	125	100	120	
	K17 TR	–	17 x 11	60	–	✓	✓				✓	45	45	120	–	100	–	
	K30	–	30 x 15	60	–	✓		✓	✓			60	60	220	–	150	–	
	KN8	KN8 U	8 x 5	60	70	✓	✓	✓	✓			40	40	35	40	–	–	Knotched profiles can be used on smaller roller diameters.
	KN8 GR	–	8 x 5	60	–	✓					✓	40	40	35	–	–	–	
	KN10	KN10 U	10 x 6	60	70	✓	✓	✓	✓			40	40	40	50	–	–	
	KN10 GR, blue	–	10 x 6	60	–	✓				✓	✓	40	40	40	–	–	–	
	KN13	KN13 U	13 x 8	60	70	✓	✓	✓	✓			45	45	50	60	–	–	
	KN13 GR	–	13 x 8	60	–	✓					✓	45	45	50	–	–	–	
	KN17	KN17 U	17 x 11	60	70	✓	✓	✓	✓			45	45	100	120	–	–	
	KN30	–	30 x 15	60	–	✓		✓	✓			60	60	180	–	–	–	
	S8	S8 U	8 x 8	60	70	✓	✓	✓	✓			40	40	80	70	50	50	Profiles fitted transversally or longitudinally.
	S12	S12 U	12 x 12	60	70	✓	✓	✓	✓			45	45	120	100	80	80	
	S15	–	15 x 20	60	–		✓	✓	✓			60	60	220	–	100	–	
	S20	–	20 x 15	60	–		✓	✓	✓			60	60	220	–	130	–	
	S25	–	20 x 25	60	–		✓	✓				60	60	300	–	150	–	
	–	L20 U HP	10 x 20	–	70	✓			✓	✓		–	40	–	–	–	40	PU HP, hardness 70 Sh.A, inclined lateral profiles with highly flexible.
	–	L30 U HP	10 x 30	–	70	✓			✓	✓		–	40	–	–	–	40	
	–	L40 U HP	10 x 40	–	70	✓			✓	✓		–	40	–	–	–	40	
	–	L50 U HP	10 x 50	–	70	✓			✓	✓		–	40	–	–	–	40	
	–	L80 U HP	10 x 80	–	70	✓			✓	✓		–	40	–	–	–	40	
	–	T20 U HP	10 x 20	–	70	✓			✓	✓		–	40	–	–	–	40	PU HP, hardness 70 Sh.A, lateral profiles, with highly flexible.
	–	T30 U HP	10 x 30	–	70	✓			✓	✓		–	40	–	–	–	40	
	–	T40 U HP	10 x 40	–	70	✓			✓	✓		–	40	–	–	–	40	
	–	T50 U HP	10 x 50	–	70	✓			✓	✓		–	40	–	–	–	40	
	–	T60 U HP	10 x 60	–	70	✓			✓	✓		–	40	–	–	–	40	
	–	L20 U	20 x 20	–	85	✓		✓	✓			–	45	–	–	–	60	Polyurethane inclined lateral profiles.
	–	L30 U	20 x 30	–	85	✓		✓	✓			–	45	–	–	–	60	
	–	L40 U	20 x 40	–	85	✓		✓	✓			–	45	–	–	–	60	
	–	L50 U	20 x 50	–	85	✓		✓	✓			–	45	–	–	–	60	
	–	L80 U	20 x 80	–	85	✓		✓	✓			–	45	–	–	–	60	
	–	T20 U	20 x 20	–	85	✓		✓	✓			–	45	–	–	–	60	Polyurethane, lateral profiles, straight.
	–	T30 U	20 x 30	–	85	✓		✓	✓			–	45	–	–	–	60	
	–	T40 U	20 x 40	–	85	✓		✓	✓			–	45	–	–	–	60	
	–	T50 U	20 x 50	–	85	✓		✓	✓			–	45	–	–	–	60	
	–	T60 U	20 x 60	–	85	✓		✓	✓			–	45	–	–	–	60	
	L20	–	23 x 20	60	–		✓	✓	✓			–	55	–	–	80	–	PVC inclined lateral profiles.
	L30	–	23 x 30	60	–		✓	✓	✓			–	55	–	–	80	–	
	L40	–	23 x 40	60	–		✓	✓	✓			–	55	–	–	80	–	
	L50	–	27 x 50	60	–		✓	✓	✓			–	55	–	–	100	–	
	L60	–	27 x 60	60	–		✓	✓	✓			–	55	–	–	100	–	
	L70	–	27 x 70	60	–		✓	✓	✓			–	55	–	–	100	–	
	L80	–	27 x 80	60	–		✓	✓	✓			–	55	–	–	100	–	
	T20	–	23 x 20	60	–		✓	✓	✓			–	55	–	–	80	–	PVC lateral profiles, straight.
	T30	–	23 x 30	60	–		✓	✓	✓			–	55	–	–	80	–	
	T40	–	23 x 40	60	–		✓	✓	✓			–	55	–	–	80	–	
	T50	–	27 x 50	60	–		✓	✓	✓			–	55	–	–	100	–	
	T60	–	27 x 60	60	–		✓	✓	✓			–	55	–	–	100	–	
	T70	–	27 x 70	60	–		✓	✓	✓			–	55	–	–	100	–	
	T80	–	27 x 80	60	–		✓	✓	✓			–	55	–	–	100	–	
	L20 RF	–	20 x 20	60	–	✓		✓	✓			–	50	–	–	80	–	PVC inclined lateral profiles, flat base without groove.
	L30 RF	–	20 x 30	60	–	✓		✓	✓			–	50	–	–	80	–	
	L40 RF	–	20 x 40	60	–	✓		✓	✓			–	50	–	–	80	–	
	L50 RF	–	20 x 50	60	–	✓		✓	✓			–	50	–	–	80	–	
	L70 RF	–	20 x 70	60	–	✓		✓	✓			–	50	–	–	80	–	
	T20 RF	–	20 x 20	60	–	✓		✓	✓			–	50	–	–	80	–	PVC lateral profiles, straight flat base without groove
	T30 RF	–	20 x 30	60	–	✓		✓	✓			–	50	–	–	80	–	
	T40 RF	–	20 x 40	60	–	✓		✓	✓			–	50	–	–	80	–	
	T50 RF	–	20 x 50	60	–	✓		✓	✓			–	50	–	–	80	–	
	T60 RF	–	20 x 60	60	–	✓		✓	✓			–	50	–	–	80	–	
	T80 RF	–	20 x 80	60	–	✓		✓	✓			–	50	–	–	80	–	

(1) Minimum pulley diameters referred to environment conditions of 20°C.

Conveyor and transmission belts jointing systems

- **OVERLAP**
  This system is applicable to thermoplastic polyurethane belts (photo 1).

- **FINGER JOINTS**
  Traditional splicing method that guarantees thickness and alignment evenness.
  - **MICRO Z**: fast joint for conveyor and transmission belts (photo 2).
  - **SINGLE Z**: it offers the maximum of flexibility. Ideal on fixed knife edges. Seam sealing foil can be used to increase strength and for heavy applications (photo 3).
  - **DOUBLE Z**: it provides high strength and can be used in alternative to single Z (photo 4).

- **SKIVED**
  Special method for polyamide transmission belts and some conveyor belts for special applications as alternative to the traditional finger joints (photo 5).

- **STEP**
  Special method for some belts and for special applications as alternative to the traditional finger joints (photo 6).

- **PLASTIC FASTENER**
  Non metallic fastener made of polyester fabric and spiralace. It has a high resistance to chemicals, guarantees flexibility and a short replacement time. It is FDA approved. It is suitable for over 16 mm diameter pulleys and in particular in those applications involving X-Ray scanners or metal detectors (photo 7).

- **METAL FASTENERS**
  Mechanical fasteners suitable in those situations where ease and speed of fitting is required. They are available both in galvanized and stainless steel, in the following types:
  - **M/G**: suitable for every belt type, in particular for airport systems, for food industry and for textile industry (photo 8).
  - **M/M**: suitable for every belt type and application. They do not need equipment for their application (photo 9).
  - **M/SL**: suitable for every belt type and application (photo 10).
  - **M/SW**: suitable for belts thicker than 2 mm. They guarantee superior strenght. They are in particular used in the agricultural industry (photo 11).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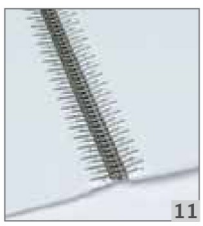
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