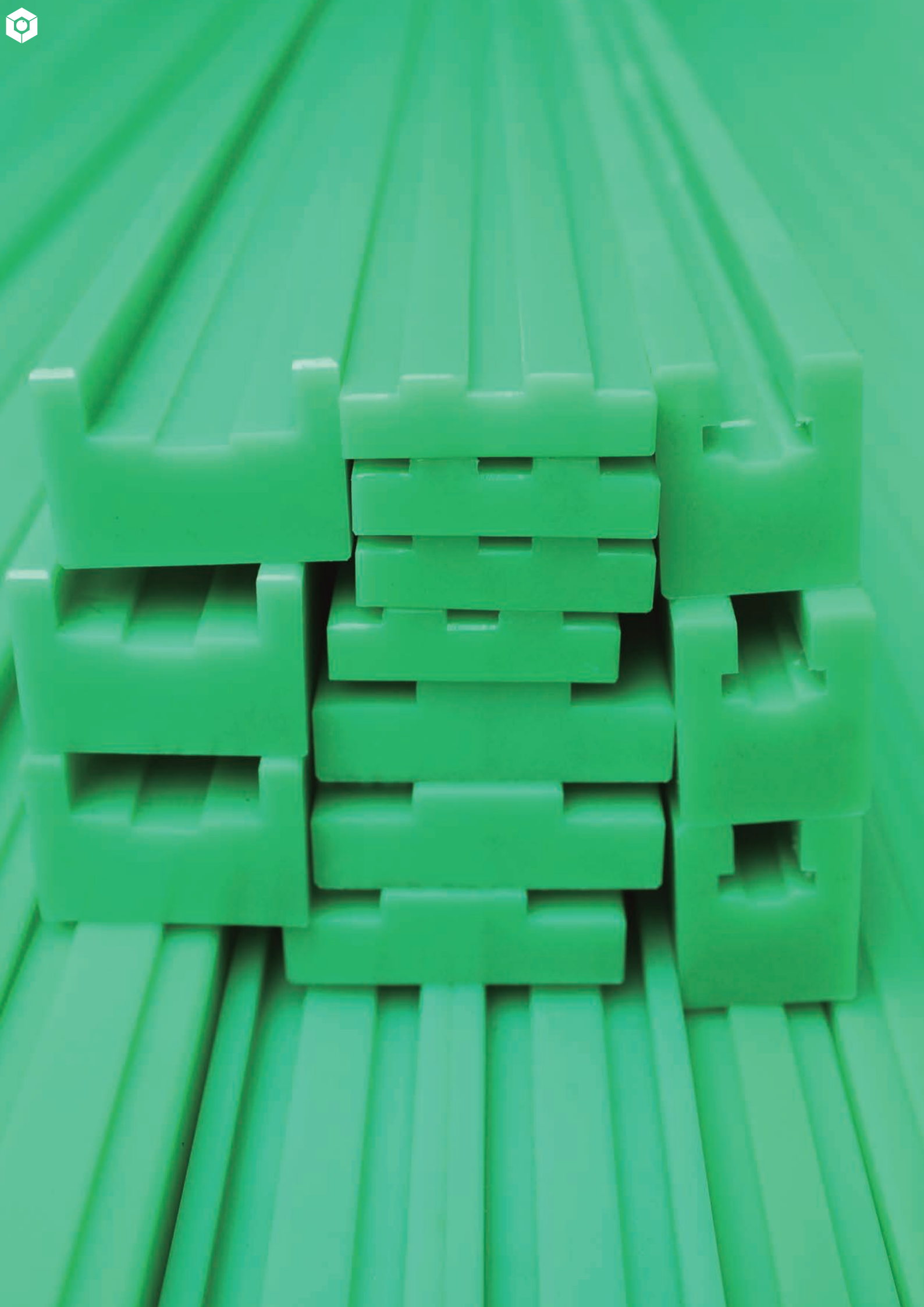




ULTRA-HIGH-MOLECULAR-WEIGHT POLYETHYLENE PROFILES

Due to the high viscosity of the ultra-high-molecular-weight polyethylene (low MFI melt flow index), it is not possible to manufacturing them by conventional injection or extrusion machines. Thus, all LA brand profiles are manufactured from semi-finished products (pressed boards) obtained by sintering and melting the powder (polyethylene granulate) in computer presses at specific pressures and at high press times. The molecular weight of the various grades of polyethylene used in the manufacturing of the profiles may range from 5,000,000 to 9,000,000 g/mol from TIVAR® 1000 to TIVAR® TG1. The increase in molecular weight causes a few important characteristics in the polyethylene to be improved:

- Increases resistance to impact
- Increases resistance to wear due to friction or abrasion
- Decrease coefficient of friction

For these reasons, LANEMA profiles can be used in all applications where other low molecular weight profiles do not meet the requirements or where they fail prematurely. For applications where temperatures or high loads do not allow the use of ultra-high molecular weight polyethylene profiles, **we have the possibility to produce these profiles with glass fibre reinforced polyamides, molybdenum disulphide or oil and thermo-laminated.**

PROFILES FOR DRIVE AND TRANSPORT

Due to their excellent characteristics, the ultra- high-molecular-weight polyethylene LANEMA profiles are increasingly used in transport and lifting technology (belts, chains or conveyors). Conventional slide profiles made of steel or other materials always produce great wear on the rollers and chain links especially if the lubrication is poor. The LANEMA profiles, in addition to supporting and guiding the chains, allow:

- Reduce the effects of inertia forces on the chains which decrease the drive mechanical power.
- Drastically reduce the contact noise of the chains with the guides.
- Increase service life of chains/belts
- Decrease maintenance since LANEMA profiles are self-lubricating even in dry environments.
- Food contact, as they are physiologically inert
- Working temperatures from -40° to 80°C and with no moisture absorption

TESTING CONDITIONS

LANEMA profiles can be used at temperatures ranging between -40° and 80° C and can even reach 120° C in short periods. If the application is exposed to higher temperatures, you should choose another material (consult our technical department).

Polyethylene have no water absorption and therefore, in relation to dimensional stability, only dilation due to the temperature increase should be considered. On average, the profile increases by 2mm/meter per 10°C in the temperature range of 20° to 100°C.

To avoid profile bends, there should also be clearances between the various sections. They should preferably be cut at 45° to allow sliding.

Chemically, polyethylene is not affected by aqueous solutions of acids and alkalis or salts as in most solvents. Only the aromatic hydrocarbon is dissolved and hydrogenated at high temperatures.

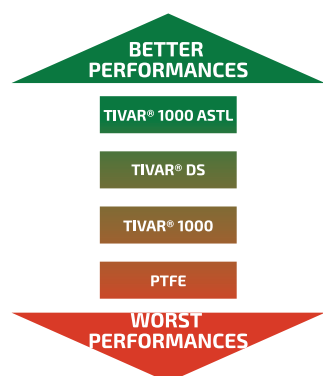
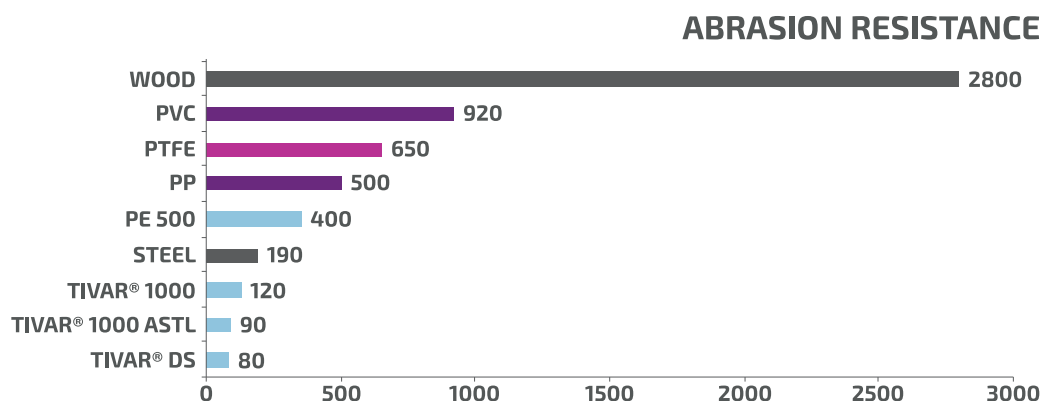




STANDARD PROFILES SELECTION

The selection of the material depends on the type of application of the loads involved, the speeds and temperatures, among others.

Values below are for comparison:



COEFFICIENT OF FRICTION

Testing conditions: 10 N / mm² in water.

The coefficient of friction depends on the speed, surface pressure, material and contact surface on which friction occurs. The coefficient of friction increases with speed and decreases with increased pressure.

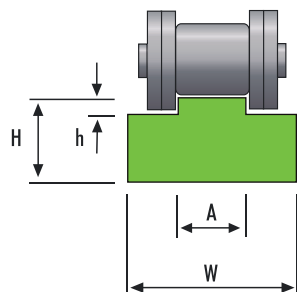
PROPERTIES

Poly Lanema has the possibility to produce the requested profile with the material that the client wishes or that our technical department advises. In case the selected material is polyethylene, the table and the graphics on pages 142-149, present the most important characteristics. The data listed are within the normal range of the product properties but should not be used to establish the limits of the specified material nor be used as the sole study basis.

If the polyethylene does not meet the required load and/or temperature requirements, or even if the application conditions are more demanding than what is allowed, other materials are available for all types of applications.

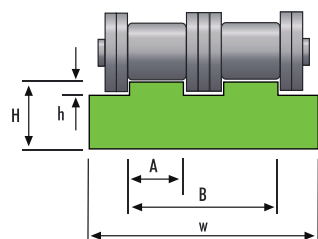


SINGLE CHAIN



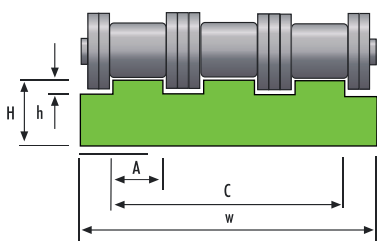
REFERENCE	STEP	ISO	A	h	W	H	Kg/m
LA - 0	3/8"	06 - B1	5.5	1.5	15	10	0.130
LA - 1	1/2"	08 - B1	7.5	2.2	20	10	0.165
LA - 2	1/2"	08 - B1	7.5	2.2	20	15	0.26
LA - 3	5/8"	10 - B1	9.3	2.6	20	10	0.16
LA - 4	5/8"	10 - B1	9.3	2.6	20	15	0.26
LA - 5	3/4"	12 - B1	11.3	2.4	25	10	0.21
LA - 6	3/4"	12 - B1	11.3	2.4	25	15	0.325
LA - 7	1"	16 - B1	16.5	3.5	40	15	0.47
LA - 8	1"	16 - B1	16.5	3.5	40	20	0.66
LA - 9	1" 1/4	20 - B1	19	4.2	45	15	0.53
LA - 10	1" 1/4	20 - B1	19	4.3	45	20	0.72
LA - 11	1" 1/2	24 - B1	24.7	5.5	60	15	0.665
LA - 12	1" 3/4	28 - B1	30.1	6.8	75	20	1.13
LA - 13	2"	32 - B1	30.1	7.7	80	20	1.15
LA - 14	2"	32 - B1	30.1	7.7	85	20	1.21

DOUBLE CHAIN



REFERENCE	STEP	ISO	W	H	A	h	B	Kg/m
LA - 15	3/8"	06 - B2	25	10	5.5	1.5	15.7	0.250
LA - 16	1/2"	08 - B2	35	10	7.5	2.2	21.4	0.360
LA - 17	5/8"	10 - B2	40	10	9.3	2.6	25.9	0.425
LA - 18	5/8"	10 - B2	40	15	9.3	2.6	25.9	0.524
LA - 19	3/4"	12 - B2	45	10	11.3	2.4	30.8	0.480
LA - 20	3/4"	12 - B2	45	15	11.3	2.4	30.8	0.598
LA - 21	1"	16 - B2	48.4	15	16.5	3.5	48.4	0.820
LA - 22	1"	16 - B2	48.4	20	16.5	3.5	48	1.156
LA - 23	1" 1/4	20 - B2	55.5	15	19	4.2	55.5	0.930
LA - 24	1" 1/4	20 - B2	55.5	20	19	4.2	55.5	1.232
LA - 25	1" 1/2	24 - B2	73.1	20	24.7	5.5	73.1	1.620
LA - 26	1" 3/4	28 - B2	89.7	25	30.1	6.8	89.7	2.490
LA - 27	2"	32 - B2	88.7	30	30.1	7.7	88.7	2.930

TRIPLE CHAIN



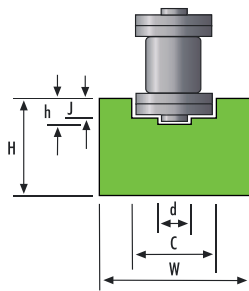
REFERENCE	STEP	ISO	W	H	A	h	C	Kg/m
LA - 28	3/8"	06 - B3	35	10	5.5	1.5	25.9	0.306
LA - 29	1/2"	08 - B3	45	10	7.5	2.2	35.3	0.381
LA - 30	1/2"	08 - B3	45	15	7.5	2.2	35.3	0.595
LA - 31	1/2"	08 - B3	45	20	7.5	2.2	35.3	0.808
LA - 32	5/8"	10 - B3	55	10	9.3	2.6	40.5	0.455
LA - 33	3/4"	12 - B3	65	10	11.3	2.4	50.3	0.546
LA - 34	1"	16 - B3	95	15	16.5	3.5	80.3	1.167
LA - 35	1" 1/4	20 - B3	105	15	19	4.2	92	1.304
LA - 36	1" 1/2	24 - B3	135	20	24.7	5.5	121.5	2.247
LA - 37	1" 3/4	28 - B3	170	25	30.1	6.8	149.3	3.522
LA - 38	2"	32 - B3	170	30	30.1	7.7	149.3	4.262



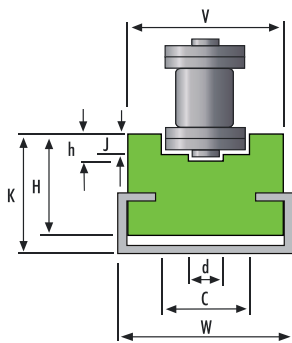
WE MANUFACTURE PROFILES
TO YOUR MEASURE.



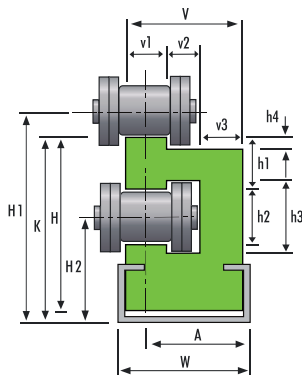
ROLLER CHAIN PROFILES



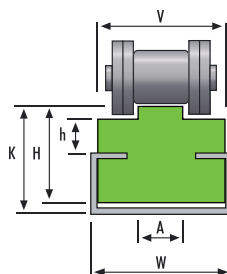
REFERENCE	STEP	ISO	W	H	C	h	J	d	Kg/m
LA - 39	3/8"	06 - B1	20	15	9.2	4.2	2.8	3.7	0.257
LA - 40	1/2"	08 - B1	25	15	12.7	4.8	3.5	4.9	0.308
LA - 41	5/8"	10 - B1	25	15	15.2	5.1	3.6	5.5	0.296
LA - 42	3/4"	12 - B1	25	20	16.7	5.7	3.9	6.2	0.403
LA - 43	1"	16 - B1	35	25	24.4	9.9	8.4	8.9	0.624



REFERENCE	STEP	ISO	W	V	H	C	K	h	J	d	RAIL	Kg/m
LA - 44	3/8"	06 - B1	20	10	10	9.2	15	4.2	2.8	4	C 2010	0.290
LA - 45	1/2"	08 - B1	24	20	9	12.7	11	4.8	3.5	4.9	C 2405	0.145
LA - 46	5/8"	10 - B1	28	23	12	15.2	18	5.1	3.6	5.5	C 2812	0.200
LA - 47	3/4"	12 - B1	28	23	12	16.7	18	5.7	3.9	6.2	C 2812	0.200
LA - 48	1"	16 - B1	38	32.5	20	24.4	30	9.9	8.4	8.9	C 3818	0.770
LA - 48 - A	1" 1/4	20 - B1	60	60	25	28.0	35	11.9	10.0	11	C 6020	1.040
LA - 48 - B	1" 1/2	24 - B1	60	60	30	35.0	40	14.9	13.0	16	C 6020	1.340
LA - 48 - C	1" 3/4	28 - B1	60	65	40	39.0	45	18.0	16.0	17	C 6020	1.840
LA - 48 - D	2"	32 - B1	60	70	40	44.0	45	21.7	16.0	19	C 6020	2.040



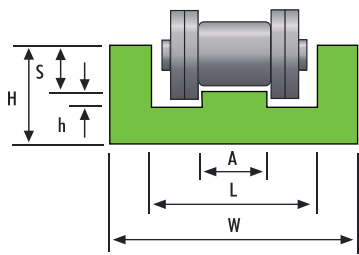
REFERENCE	STEP	ISO	W	V	H1	H2	A	K	H	h1	h2	h3	h4	v1	v2	v3	RAIL	Kg/m
LA - 49	3/8"	06 - B1	20	20	30.2	17	14.5	27	24	6.6	6.6	9.3	1.5	5.2	4.3	10.4	C 2010	0.470
LA - 50	1/2"	08 - B1	20	20	33.8	18	16.5	30	27	7.1	8.7	12.8	2.2	7.5	5.0	7.5	C 2010	0.530
LA - 51	5/8"	10 - B1	20	20	41.1	21	15.5	36	33	9.7	10.4	15.4	2.6	9.3	5.3	5.5	C 2010	0.690
LA - 52	3/4"	12 - B1	28	24.3	46.5	24	18.5	41	37	10.2	12.3	16.9	2.4	11.5	6.0	6.8	C 2812	0.750
LA - 53	1"	16 - B1	28	33.5	62.0	34	25	54	50	11.9	16.1	24.4	3.5	16.5	10.5	6.5	C 2812	2.150



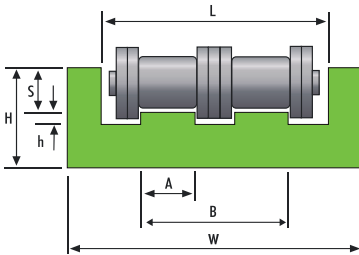
REFERENCE	STEP	ISO	W	V	H	K	h	A	RAIL	Kg/m
LA - 54	3/8"	06 - B1	20	15	15	17	1.5	5.4	C 2010	0.620
LA - 55	1/2"	08 - B1	24	20	9	11	2.2	7.5	C 2405	0.120
LA - 55 - A	1/2"	08 - B1	20	17	15	17	2.2	7.5	C 2010	0.130
LA - 56	5/8"	10 - B1	20	17	15	17	2.6	9.3	C 2010	0.135
LA - 57	3/4"	12 - B1	20	20	15	17	2.4	11.3	C 2812	0.175
LA - 57 - A	3/4"	12 - B1	28	23.5	15	18	2.4	11.3	C 2812	0.289
LA - 58	1"	16 - B1	28	23.5	15	18	3.5	16.5	C 2812	0.297
LA - 59	1" 1/4	20 - B1	28	28	15	18	4.3	19.0	C 2812	0.345
LA - 60	1" 1/2	24 - B1	38	33	25	30	5.5	24.7	C 3818	0.635
LA - 61	1" 3/4	28 - B1	38	38	25	30	6.8	30.1	C 3818	0.731
LA - 62 - A	2"	32 - B1	38	38	25	30	7.7	30.1	C 3818	0.710
LA - 62 - B	2"	32 - B1	60	60	25	35	7.7	30.1	C 6020	1.240

STANDARD PROFILES

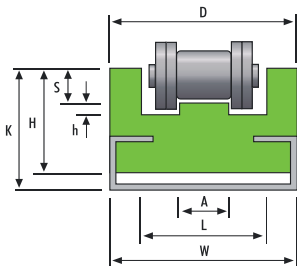
ROLLER CHAIN PROFILES



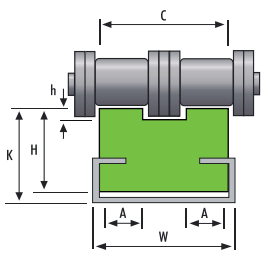
REFERENCE	STEP	ISO	W	H	L	h	A	S	Kg/m
LA - 62	3/8"	06 - B1	20	10	13	1.5	5.5	1.1	0.188
LA - 63	1/2"	08 - B1	25	15	16.3	2.2	7.5	1.6	0.352
LA - 64	5/8"	10 - B1	28	15	19.2	2.6	9.3	2.1	0.394
LA - 65	3/4"	12 - B1	30	20	21.8	2.4	11.3	2.8	0.564
LA - 66	1"	16 - B1	42	25	33.8	3.5	16.5	3.3	0.987
LA - 66 - A	1 1/4"	20 - B1	50	25	40	4.2	19	4	1.175



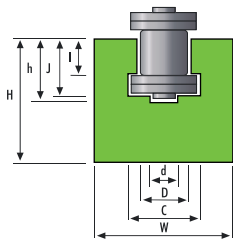
REFERENCE	STEP	ISO	W	H	L	h	A	S	B	Kg/m
LA - 67	3/8"	06 - B2	36	15	26	1.5	5.4	4.4	16	0.390
LA - 68	1/2"	08 - B2	45	20	35	2.2	7.4	7.2	21	0.620
LA - 69	5/8"	10 - B2	50	25	40	2.6	9.2	9.5	26	0.816
LA - 70	3/4"	12 - B2	56	25	46	2.4	11.3	11.1	31	0.810
LA - 71	1"	16 - B2	85	30	75	3.5	16.5	16.5	48	1.200



REFERENCE	STEP	ISO	W	D	H	K	L	h	A	S	CALHA	Kg/m
LA - 72	3/8"	06 - B1	20	20	14	17	13	1.5	5.5	1.1	C 2010	0.772
LA - 73	1/2"	08 - B1	20	25	16	20	16.3	2.2	7.5	1.6	C 2812	0.890
LA - 74	5/8"	10 - B1	28	28	16	20	19.2	2.6	9.3	2.1	C 2812	1.307
LA - 75	3/4"	12 - B1	28	30	18	22	21.8	2.4	11.3	2.8	C 2812	1.367
LA - 76	1"	16 - B1	38	42	25	30	33.8	3.5	16.5	3.3	C 3818	2.417
LA - 76 - A	1 1/4"	20 - B1	38	50	30	35	40.0	4.2	19	4.0	C 3818	2.840



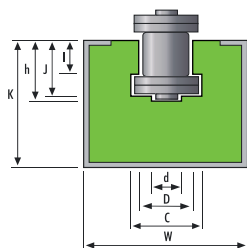
REFERENCE	STEP	ISO	W	H	K	h	A	C	CALHA	Kg/m
LA - 77	3/8"	06 - B2	20	10	15	1.5	5.4	20	C 2010	0.615
LA - 78	1/2"	08 - B2	20	15	17	2.2	7.5	21.4	C 2010	0.240
LA - 79	5/8"	10 - B2	20	15	17	2.6	9.3	25.7	C 2812	0.260
LA - 80	3/4"	12 - B2	28	15	20	2.4	11.3	30.7	C 2812	0.330
LA - 80 - A	1"	16 - B2	38	15	27	3.5	16.5	48.0	C 3818	0.650
LA - 80 - B	1 1/4"	20 - B2	38	15	30	4.3	19.0	55.0	C 3818	0.925
LA - 80 - C	1 1/2"	24 - B2	38	15	35	5.5	24.7	72.0	C 3818	1.425



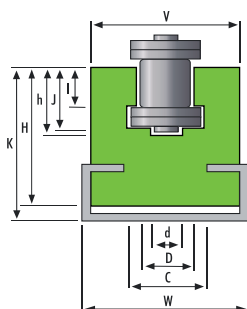
REFERENCE	STEP	ISO	W	H	C	h	I	d	J	D	Kg/m
LA - 81	3/8"	06 - B1	20	25	9.3	9.9	5.6	4	8.7	6.6	0.414
LA - 82	1/2"	08 - B1	24	30	12.8	12.7	7.6	5	11.5	8.7	0.564
LA - 83	5/8"	10 - B1	30	35	15.4	14.8	9.3	6	13.5	10.4	0.832
LA - 84	3/4"	12 - B1	40	35	16.9	17.5	11.5	7.9	15.9	12.3	1.106
LA - 85	1"	16 - B1	40	45	24.4	27.0	16.5	9	25.7	16.1	1.231
LA - 86	1 1/4"	20 - B1	50	50	27.5	32.0	19.0	11	30.0	19.3	1.726
LA - 87	1 1/2"	24 - B1	60	60	36.5	40.1	25.2	16	38.2	25.7	2.332
LA - 88	1 3/4"	28 - B1	60	70	41.5	48.9	30.8	17	46.9	28.3	2.473
LA - 89	2"	32 - B1	70	75	44.5	53.0	30.8	19	47.3	29.6	3.264



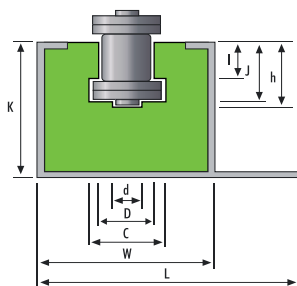
ROLLER CHAIN PROFILES



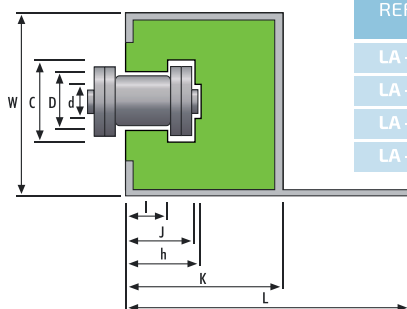
REFERENCE	STEP	ISO	W	K	I	J	h	d	D	C	RAIL	Kg/m
LA - 90	3/8"	06 - B1	30	24	5.6	8.7	9.9	4	6.6	9.3	C 3024	0.340
LA - 91	1/2"	08 - B1	30	24	7.6	11.5	12.7	5	8.7	12.8	C 3024	0.340
LA - 92	1/2"	08 - B1	28	16	6.3	10.2	11.3	5	8.7	12.8	C 2816	0.340
LA - 93	5/8"	10 - B1	30	24	9.3	13.5	14.8	6	10.4	15.4	C 3024	0.340
LA - 94	3/4"	12 - B1	30	24	11.3	15.9	17.5	7.9	12.3	16.9	C 3024	0.340
LA - 95	1"	16 - B1	45	40	16.5	25.7	27.0	9	16.1	24.4	C 4540	1.150
LA - 95 - A	1" 1/4	20 - B1	45	40	19.0	30	32	11	19.3	27.5	C 4540	1.050



REFERENCE	STEP	ISO	W	H	V	K	I	J	h	d	D	C	RAIL	Kg/m
LA - 96	3/8"	06 - B1	20	17.5	20	21	5.6	8.7	9.9	4	6.6	9.3	C 2010	0.192
LA - 97	1/2"	08 - B1	28	27.5	24	32	7.6	11.5	12.7	5	8.7	12.8	C 2812	0.502
LA - 98	1/2"	10 - B1	28	27.5	24	32	9.3	13.5	14.8	6	10.4	15.4	C 2812	0.452
LA - 99	5/8"	12 - B1	38	34.0	38	43	11.5	15.9	17.5	7.9	12.3	16.9	C 3818	0.729
LA - 100	1"	16 - B1	38	40	38	50	16.5	25.7	27.0	9	16.1	24.4	C 3818	0.620
LA - 101	1" 1/4	20 - B1	60	45	60	55	19.0	30.0	32.0	11	19.3	27.5	C 6020	2.640
LA - 102	1" 1/2	24 - B1	60	55	60	65	25.2	38.2	40.1	16	25.7	36.5	C 6020	2.840
LA - 103	1" 3/4	28 - B1	60	70	70	80	30.8	46.9	48.9	17	28.3	41.5	C 6020	4.040
LA - 104	2"	32 - B1	60	70	70	80	30.8	47.3	53.0	19	29.6	44.5	C 6020	4.040



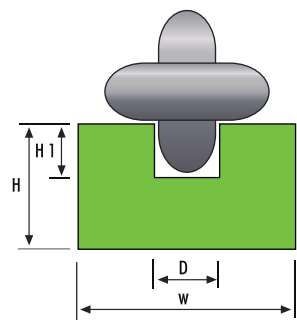
REFERENCE	STEP	ISO	K	W	L	I	J	h	d	D	C	RAIL	Kg/m
LA - 105	3/8"	06 - B1	25	31	53	5.6	8.7	9.9	4	6.6	9.3	C 5325	1.14
LA - 106	1/2"	08 - B1	25	31	53	7.6	11.5	12.7	5	12.8	12.8	C 5325	1.10
LA - 107	5/8"	10 - B1	25	31	53	9.3	13.5	14.8	6	15.4	15.4	C 5325	1.05
LA - 108	3/4"	12 - B1	25	31	53	11.5	15.9	17.5	7.9	12.3	16.9	C 5325	1.05



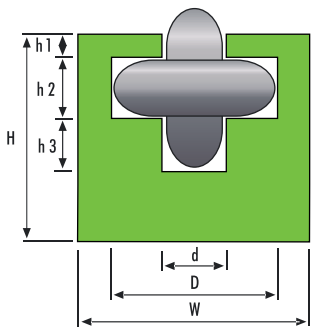
REFERENCE	STEP	ISO	K	W	L	I	J	h	d	D	C	RAIL	Kg/m
LA - 109	3/8"	06 - B1	31	25	47	5.6	8.7	9.9	4	6.6	9.3	C 4725	0.95
LA - 110	1/2"	08 - B1	31	25	47	7.6	11.5	12.7	5	8.7	12.8	C 4725	0.95
LA - 111	5/8"	10 - B1	31	25	47	9.3	13.5	14.8	6	10.4	15.4	C 4725	0.90
LA - 112	3/4"	12 - B1	31	25	47	11.3	15.9	17.5	7.9	12.3	16.9	C 4725	0.84



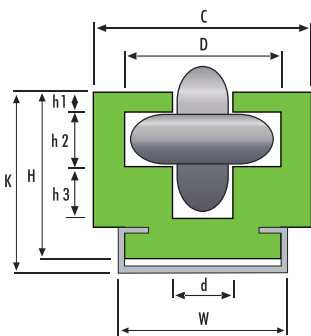
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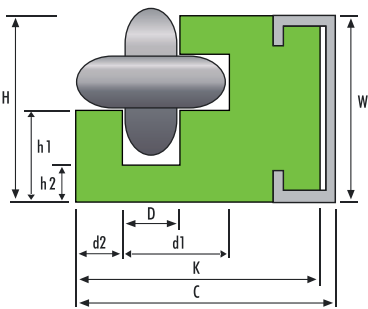
REFERENCE	W	H	D	H1	Kg/m
LA - 113	30	15	7	8	0.400
LA - 114	35	20	9	10	0.610
LA - 115	45	25	11	12	1.000
LA - 116	55	30	15	16	1.420



REFERENCE	W	H	D	d	h1	h2	h3	Kg/m
LA - 117	45	40	23	7	4.5	7	8	1.400
LA - 118	50	45	29	9	5.0	9	10	1.740
LA - 119	50	55	35	11	8.5	11	12	1.450
LA - 120	60	70	47	15	10.5	15	16	2.145



REFERENCE	W	C	H	K	D	d	h1	h2	h3	CALHA	Kg/m
LA - 121	45	38	40	45	23	7	4.5	7	8	C 3818	2.220
LA - 122	50	38	45	50	29	9	5.0	9	10	C 3818	2.820
LA - 123	50	38	55	60	35	11	8.5	11	12	C 3818	2.920
LA - 124	60	38	70	75	47	15	10.5	15	16	C 3818	4.120



REFERENCE	W	H	K	C	D	d1	d2	h1	h2	CALHA	Kg/m
LA - 125	28	27.0	39	42	7	15	6	14	7	C 2812	0.250
LA - 126	28	32.0	37	42	9	19	6	16	9	C 2812	1.250
LA - 127	38	42.5	47	56	11	23	8	20	11	C 3818	2.220
LA - 128	38	54.0	60	69	13	31	10	26	13	C 3818	3.120

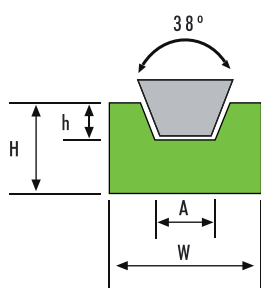


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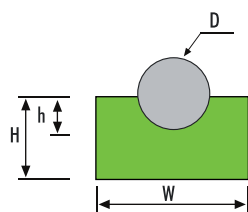


STANDARD PROFILES

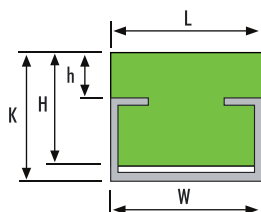
CHAIN PROFILES



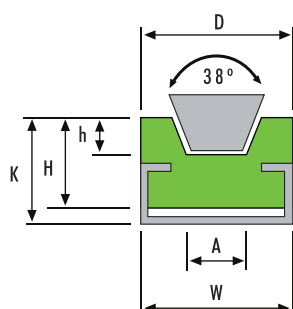
REFERENCE	W	H	h	A	Kg/m	CORREIA
LA - 129	20	10	3.5	6.0	0.170	8
LA - 130	20	10	4.5	7.2	0.170	10
LA - 131	20	12	6.0	9.2	0.170	13
LA - 132	30	15	8.0	11.5	0.334	17
LA - 133	30	20	9.0	13.5	0.435	20
LA - 134	35	20	10.5	14.5	0.500	22



REFERENCE	D	W	H	h	Kg/m
LA - 136	3	20	10	3	0.185
LA - 137	4	20	10	4	0.185
LA - 138	5	20	12	5	0.200
LA - 139	6	25	15	6	0.301
LA - 140	7	30	20	8	0.485
LA - 141	9	35	25	10	0.700
LA - 142	10	40	25	12	0.785



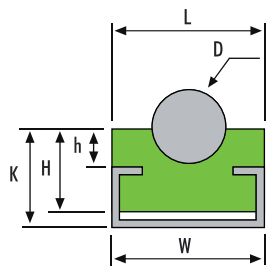
REFERENCE	W	L	K	H	h	CALHA	Kg/m
LA - 143	24	20	6	4	0.8	C 2405	0.070
LA - 144	24	20	11	9	5.8	C 2405	0.170
LA - 145	20	20	11	6	1	C 2010	0.090
LA - 146	20	20	16	10	6	C 2010	0.180
LA - 147	20	20	14	10	4	C 2010	0.180
LA - 148	20	20	17	15	7	C 2010	0.270
LA - 149	20	20	20	18	10	C 2010	0.366
LA - 150	28	28	15	10	3	C 2812	0.266
LA - 151	28	28	18	15	6	C 2812	0.399
LA - 152	38	38	22	15	4	C 3818	0.313
LA - 153	38	38	25	20	7	C 3818	0.632
LA - 154	60	60	30	20	10	C 6020	0.480



REFERENCE	W	D	H	h	K	A	CALHA	Kg/m	CORREIA
LA - 155	20	20	10	3.5	15	6.0	C 2010	0.140	8
LA - 156	20	20	15	4.5	18	7.2	C 2010	0.140	10
LA - 157	28	25	18	6.0	22	9.2	C 2812	0.341	13
LA - 158	28	30	18	9.0	24	11.5	C 2812	0.341	17
LA - 159	28	30	18	9.0	24	13.5	C 2812	0.341	20
LA - 160	38	35	25	10.5	30	14.5	C 3818	0.570	22

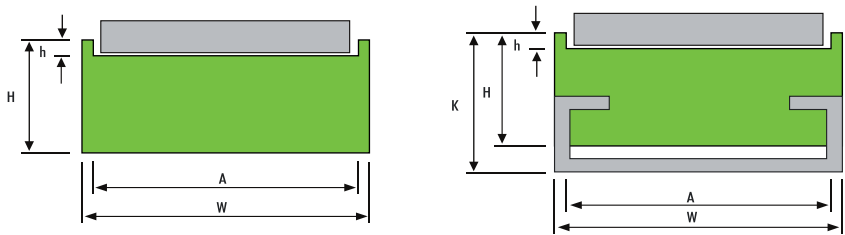


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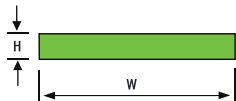


REFERENCE	D	W	L	H	h	K	RAIL	Kg/m
LA - 162	6	20	20	10	3	15	C 2010	0.145
LA - 163	8	20	20	15	4	18	C 2010	0.145
LA - 164	10	20	20	15	5	18	C 2010	0.145
LA - 165	12	28	25	15	6	20	C 2812	0.260
LA - 166	14	28	28	15	8	20	C 2812	0.250
LA - 167	18	38	33	20	10	25	C 3818	0.430
LA - 168	20	38	38	20	12	25	C 3818	0.420

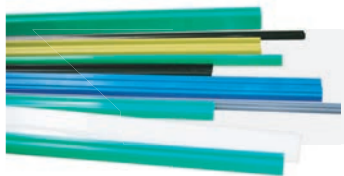
FLAT CHAIN PROFILES



INDICATE DIMENSIONS UPON THE ORDER WITH OR WITHOUT RAIL



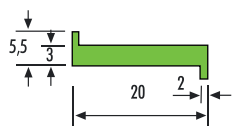
COLOR	H	W							
		15	20	25	30	35	40	45	50
GREEN	3	LA - 172	LA - 173	LA - 174	LA - 175	LA - 176	LA - 177	LA - 178	LA - 179
GREEN	5	LA - 180	LA - 181	LA - 182	LA - 183	LA - 184	LA - 185	LA - 186	LA - 187
BLACK	3	LA - 188	LA - 189	LA - 190	LA - 191	LA - 192	LA - 193	LA - 194	LA - 195
BLACK	5	LA - 196	LA - 197	LA - 198	LA - 199	LA - 200	LA - 201	LA - 202	LA - 203



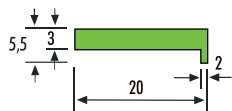
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TO YOUR MEASURE.



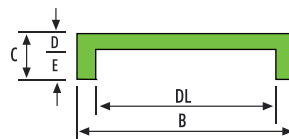
SLIDING GUIDES



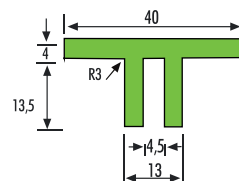
REF ^a	TYPE	COLOR
LA - 204	Z	GREEN
LA - 205	Z	BLACK



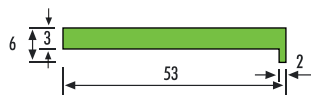
REF ^a	TYPE	COLOR
LA - 206	L	GREEN
LA - 207	L	BLACK



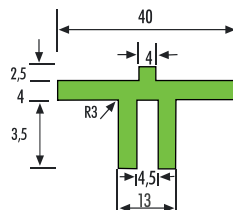
REF ^a	TYPE	COLOR
LA - 229	DL 31/21/41	GREEN
LA - 229	DL 31/21/41	BLACK



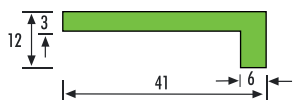
REF ^a	TYPE	COLOR
LA - 230	TCAL	GREEN



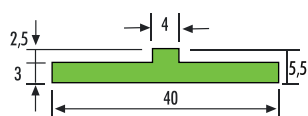
REF ^a	TYPE	COLOR
LA - 208	L/53	GREEN
LA - 209	L/53	BLACK



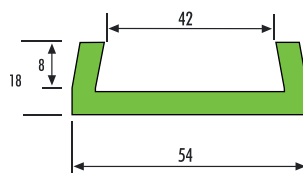
REF ^a	TYPE	COLOR
LA - 231	TCA	GREEN



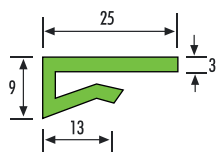
REF ^a	TYPE	COLOR
LA - 210	L/41	GREEN



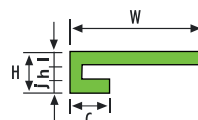
REF ^a	TYPE	COLOR
LA - 211	T	GREEN
LA - 212	T	BLACK



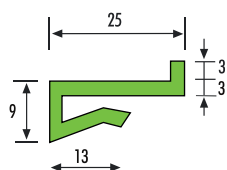
REF ^a	TYPE	COLOR
LA - 232	U/610	BLACK



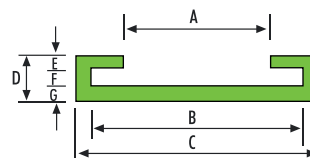
REF ^a	TYPE	COLOR
LA - 222	P - 25 mm	GREEN
LA - 223	P - 25 MM	BLACK



REF ^a	COLOR
LA - 233	GREEN

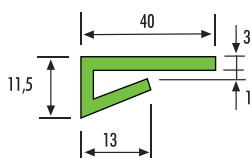


REF ^a	TYPE	COLOR
LA - 224	P/P	GREEN
LA - 224	P/P	BLACK

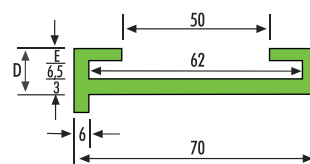


REF ^a	TYPE	COLOR
LA - 234	DC	GREEN
LA - 234	DC	BLACK

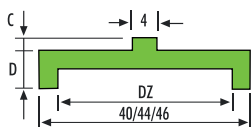
A - 40/32/23
B - 51/42/38
C - 60/50.5/46
D - 14.5/15/14.5
E - 4.5/3/4
F - 6.5/8.8/6.5
G - 3.5/3.2/4



REF ^a	TYPE	COLOR
LA - 226	P - 40 mm	GREEN
LA - 227	P - 40 mm	BLACK

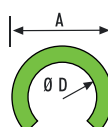


REF ^a	COLOR
LA - 235	GREEN
LA - 235	BLACK



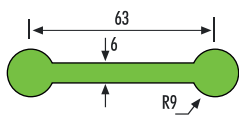
REF ^a	TYPE	COLOR
LA - 228	DZ 36/32/41	GREEN
LA - 228	DZ 36/32/41	BLACK

A - 40.5/38/41
B - 45/46/46
C - 5/6/5
D - 10/14/15
E - 6/6/7.5

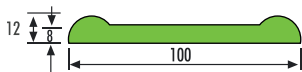


REF ^a	TYPE	COLOR
LA - 236	CLIP	GREEN
LA - 236	CLIP	BLACK
LA - 236	CLIP	WHITE

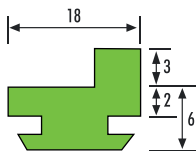
Dimensions on request.



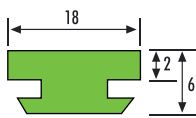
REF ^a	COLOR
LA - 237	GREEN
LA - 237	BLACK



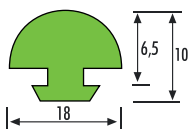
REF ^a	COLOR
LA - 238	GREEN



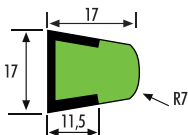
REF ^a	COLOR
LA - 239	GREEN
LA - 239	BLACK
LA - 239	WHITE



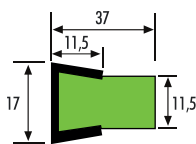
REF ^a	COLOR
LA - 240	GREEN
LA - 240	BLACK
LA - 240	WHITE



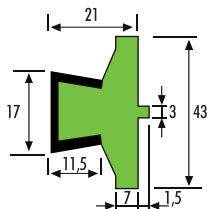
REF ^a	COLOR
LA - 241	GREEN
LA - 241	BLACK
LA - 241	WHITE



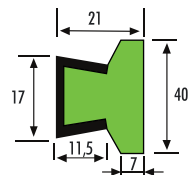
REF ^a	COLOR
LA - 242	WHITE
LA - 242	BLACK



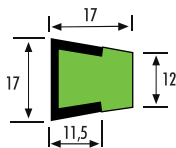
REF ^a	COLOR
LA - 243	WHITE
LA - 243	BLACK



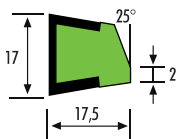
REF ^a	COLOR
LA - 244	WHITE
LA - 244	BLACK



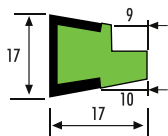
REF ^a	COLOR
LA - 245	WHITE
LA - 245	BLACK



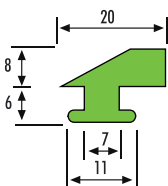
REF ^a	COLOR
LA - 246	WHITE
LA - 246	BLACK



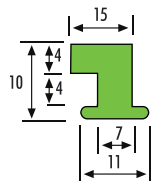
REF ^a	COLOR
LA - 247	WHITE
LA - 247	BLACK



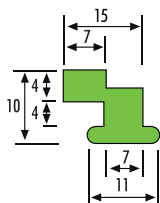
REF ^a	COLOR
LA - 248	WHITE
LA - 248	BLACK



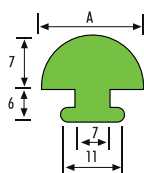
REF ^a	COLOR
LA - 249	WHITE
LA - 249	BLACK



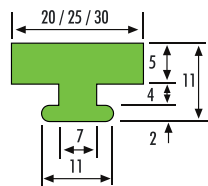
REF ^a	COLOR
LA - 250	GREEN
LA - 250	BLACK



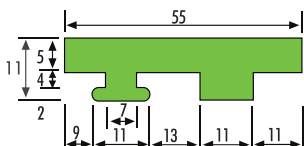
REF ^a	COLOR
LA - 251	GREEN
LA - 251	BLACK



REF ^a	COLOR
LA - 252	GREEN
LA - 252	BLACK



REF ^a	COLOR
LA - 253	GREEN
LA - 253	BLACK

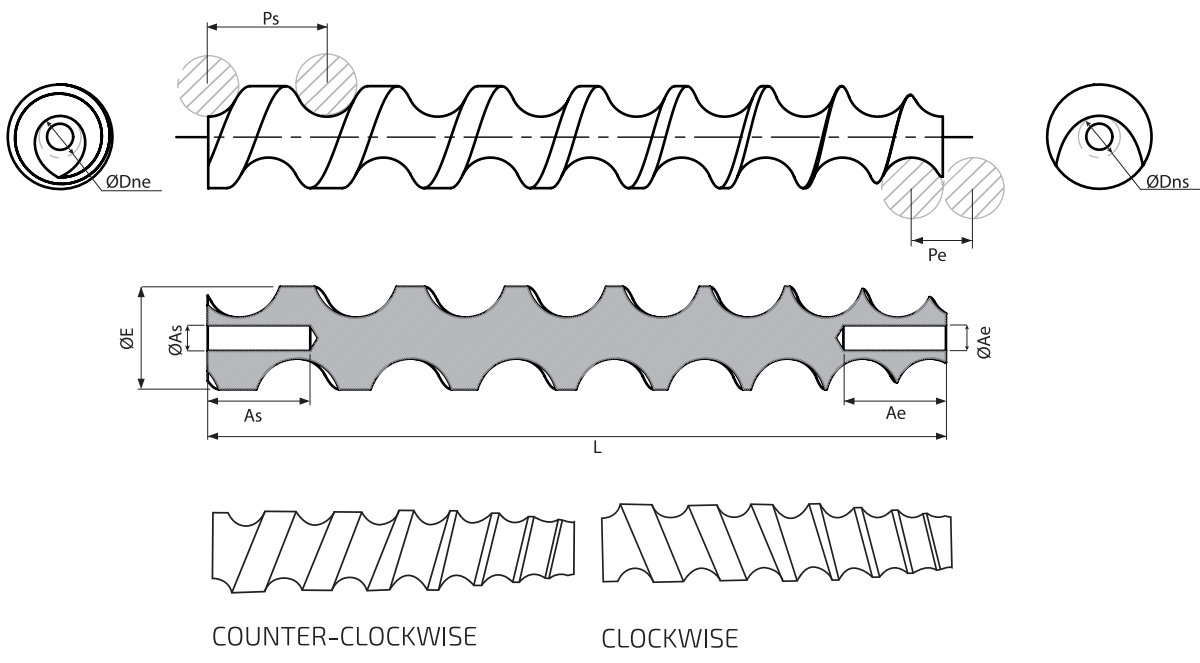


REF ^a	COLOR
LA - 254	GREEN
LA - 254	BLACK

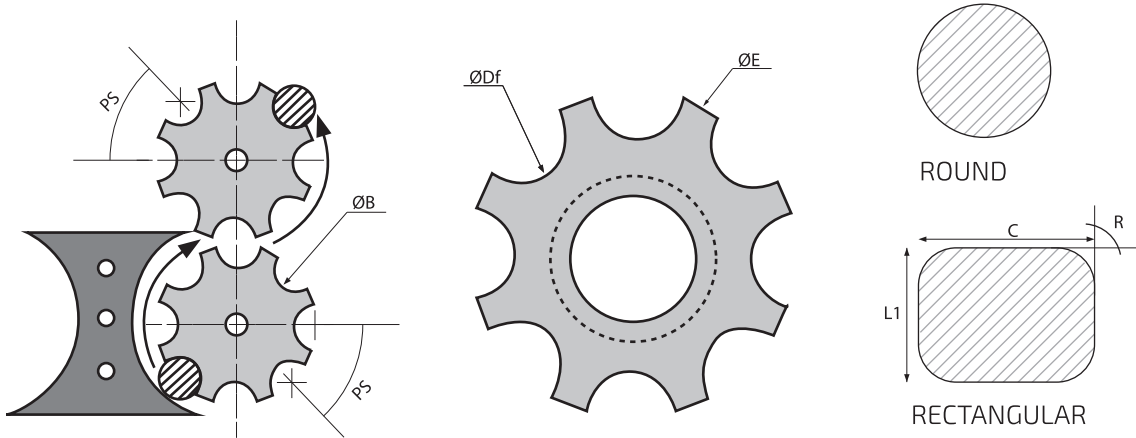


STARS AND SPINDLES FOR THE FILLING AND PACKAGING INDUSTRIES





STARS



TAKE INTO ACCOUNT:

- E = number of worm entries
- Np = number of turns
- Thread direction
- Inlet pitch = bottle diameter
- Exit pitch = star pitch
- $\varnothing B$ = bottle diameter

$\varnothing A_e$ = Inlet side bore	
$\varnothing A_s$ = Outlet side bore	
A_e = inlet bore length	
A_s = outlet bore length	
$\varnothing B$ = Bottle diameter	
$\varnothing D_e$ = Mounting bore diameter *	
$\varnothing D_t$ = Outer diameter	
$\varnothing D_{ne}$ = Inlet core diameter	
$\varnothing D_{ns}$ = Outlet core diameter	
$\varnothing D_f$ = Bottom diameter	
E = Maximum diameter	
L = Length	
P_e = Inlet pitch	
P_s = Outlet pitch	
R = Corner radius	
C = Package length	
L1 = Package width	