

HabasitLINK® Straight 1" Pitch Belting

M2533 Flush Grid 1"

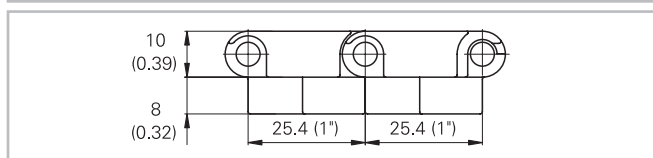
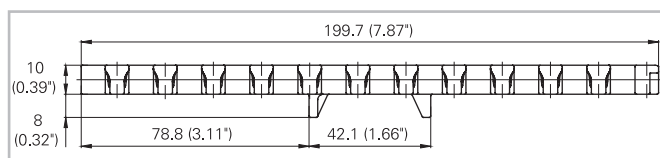
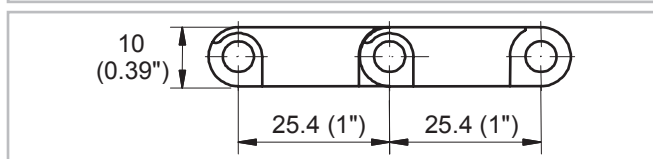
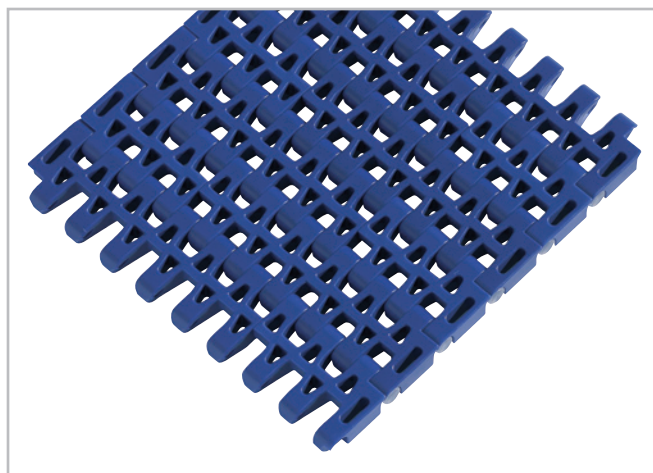


Description

- 35% open area; 60% open contact area; largest opening 5.5x7 mm (0.22"x0.28")
- Excellent for cooling and draining
- Open hinge
- Food approved materials available
- Rod diameter 5 mm (0.2")
- "Open window" sprockets

Available accessories

- Flights
- Sideguards
- Hold down devices
- GripTop modules
- Tab modules with 2 tabs (Code: - T2)



Belt data

Belt material		PP	PE	POM		PA +US	PA
Rod material		PP	PE	PP	PA		
Nominal tensile strength F'_N straight run	N/m	14000	8000	18000	24700	20000	20000
	lb/ft	959	548	1233	1692	1370	1370
Temperature range	°C	5 - 105	-70 - 65	5 - 93	-40 - 93	-46 - 118	-46 - 130
	°F	40 - 220	-94 - 150	40 - 200	-40 - 200	-50 - 245	-50 - 266
Temperature maximum (short-term)	°C					135	160
	°F					275	320
Belt weight m_B	kg/m²	4.6	5.1	7.1	7.1	5.6	5.6
	lb/sqft	0.94	1.04	1.45	1.45	1.15	1.15

Diameter of idling rollers (minimum)		Diameter of support rollers (minimum)		Diameter for gravity take-up and center drive rollers (minimum)		Backbending radius for elevators without sideguards or hold down devices (minimum)		Backbending radius for elevators with sideguards or hold down devices (minimum)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
40	1.6	50	2	100	4	150	6	250	10

Use the largest possible backbending radius for elevators with side guards or hold down devices.

Standard range of belt widths b_0

mm (nom.)	150	200	250	300	350	400	450	500	550	600	650	700	750	800	etc.
inch (nom.)	6	8	10	12	14	16	18	20	22	24	26	28	30	32	etc.

Real belt widths are in most cases 0.1% to 0.3% smaller.

Standard belt widths in increments of 50 mm (2"). Non-standard widths are offered in increments of 16.66 mm (0.66"). Smallest possible width 83.4 mm (3.25").

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For detailed material properties refer to the HabasitLINK® Engineering Guidelines or contact your Habasit representative.

The nominal tensile strength is valid for 23 °C (73 °F). The admissible tensile force depends on the operating temperature near the drive sprockets. Within the temperature range allowed, the admissible tensile force may vary from 100% to 20% of the nominal tensile strength. For detailed information and correct calculation of effective tensile force refer to the Calculation Guide in the HabasitLINK® Engineering Guidelines.

Belt data for special belt materials

Belt material		PBT +FR		PP +FR		PA +GF	PA +HT	ST
Rod material		PP	PA	PP	PA	ST		
Sprocket material ⁽¹⁾		Standard				ST		
Belt width		Standard				see table		
Flammability classification UL 94 ⁽²⁾		V0				HB		V0
Flammability classification ISO 340 ⁽²⁾		yes		no				yes
Nominal tensile strength F' _N straight run	N/m lb/ft	14000 959	15000 1027	9000 617	9000 617	20000 1370	20000 1370	10000 685
Temperature range	°C °F	5 - 105 40 - 220	-40 - 130 -40 - 266	5 - 105 40 - 220	5 - 105 40 - 220	0 - 145 32 - 293	0 - 170 32 - 338	0 - 200 32 - 392
Temperature maximum (short-term)	°C °F		150 302			175 347	200 392	240 464
Belt weight m _B	kg/m ² lb/sqft	7.6 1.56	7.6 1.56	5.6 1.15	5.6 1.15	7.7 1.54	7.7 1.54	8.7 1.78

⁽¹⁾ In most cases standard sprockets are suitable. Depending on the application requirements it may be necessary to select a different sprocket material like Polyamide, Polyurethane or Polypropylene. For Polyamide +HT, Polyamide +GF and Super High Temperature belt materials it is recommended to use sprockets of the Super High Temperature material.

⁽²⁾ Flammability classification UL 94 and ISO 340 see Glossary in the HabasitLINK® Engineering Guidelines.

Belt width for Polyamide +GF, Polyamide +HT and Super High Temperature material

mm (nom.)	50.5	101.0	151.5	202.0	252.5	303.0	353.5	404.0	454.5	505.0	555.5	606.0	etc.
inch (nom.)	1.99	3.98	5.96	7.95	9.94	11.93	13.92	15.90	17.89	19.88	21.87	23.86	etc.

Real belt widths are in most cases 0.1% to 0.3% smaller.

Dimension change due to moisture

For Polyamide the dimension change due to moisture adsorption needs to be considered. For detailed information refer to the Calculation Guide in the HabasitLINK® Engineering Guidelines.

Dimension change due to temperature

For detailed information and correct calculation of length and width at varying temperature refer to the Calculation Guide in the HabasitLINK® Engineering Guidelines.

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