

# HabasitLINK®

## M2540 Radius Flush Grid 1"

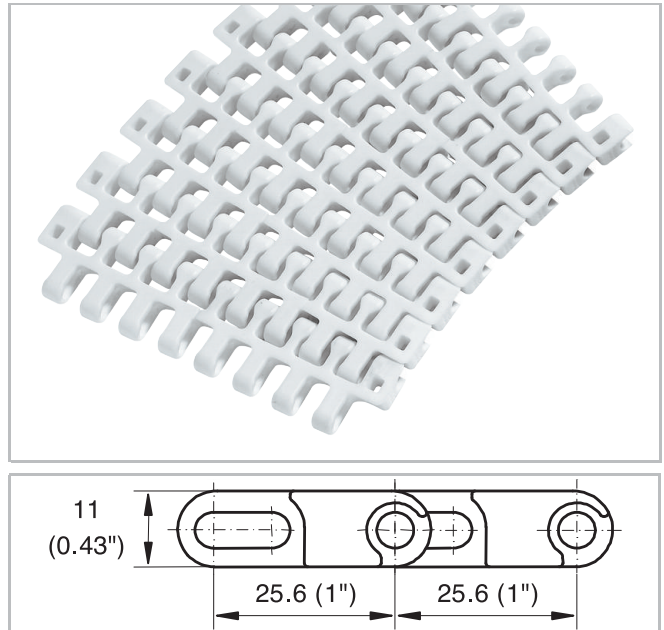


### Description

- For radius and straight conveying (collapse factor 2.2)
- 35% open area; 53% open contact area; largest opening 6x12.5 mm (0.24"x0.49")
- Excellent for cooling and draining
- Easy to clean
- Food approved materials available
- Rod diameter 5 mm (0.2")

### Available accessories

- Flights
- Side guards
- Hold-down devices
- Hold-down tabs
- GripTop modules
- Lane divider



### Belt data

Belt material		PP		POM	PA +US	PA
Rod material		POM	PA			
Nominal tensile strength $F'_N$ straight run	N/m	19000	19000	27000	25000	25000
	lb/ft	1300	1300	1850	1713	1713
Nominal tensile strength $F_N$ in curve <sup>(1)</sup>	N	1000	1000	1500	1300	1300
	lbf	225	225	338	293	293
Temperature range	°C	5 - 93	5 - 105	-40 - 93	-46 - 116	-46 - 130
	°F	40 - 200	40 - 220	-40 - 200	-50 - 240	-50 - 266
Temperature maximum (short-term)	°C				135	160
	°F				275	320
Belt weight $m_b$	kg/m²	4.7	4.7	7.0	6.0	6.0
	lb/sqft	0.96	0.96	1.44	1.23	1.23

<sup>(1)</sup> For  $b_0 > 300$  mm (12") higher values admissible. Refer to LINK-SeleCalc

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 side guards or hold down devices (minimum)		Backbending radius for elevators with side guards or hold down devices (minimum)	
mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
50	2	50	2	100	4	150	6	250.0	10

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

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### Standard range of belt widths $b_0$ and collapse factor $Q$ ( $R_{min} = Q \times b_0$ )

Belt width mm (nom.)	200	250	300	350	400	450	500	550	600	650	700	750	800	850
Belt width inch (nom.)	8	10	12	14	16	18	20	22	24	26	28	30	32	34
Coll. fact. Q	2.03	2.07	2.10	2.12	2.14	2.15	2.16	2.17	2.18	2.18	2.19	2.19	2.19	2.20
Belt width mm (nom.)	900	950	1000	1050	1100	1150	1200							
Belt width inch (nom.)	36	38	40	42	43	45	47							
Coll. fact. Q	2.20	2.20	2.21	2.21	2.21	2.21	2.21							

Belt widths larger than 1200 mm (48") are not recommended; *please contact Habasit.*

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

For PP material up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.

For POM material up to 750 mm (30") -3 mm to 0 mm and -0.4% to 0% for wider belts.

**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").

**For detailed material properties** refer to the HabasitLINK® Engineering Guidelines.

**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.

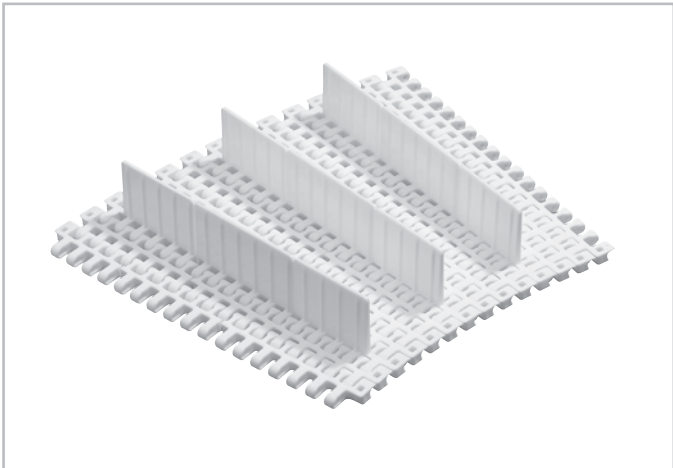
#### Disclaimer

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# Product Data Series M2500

## Flights and Sideguards M2540

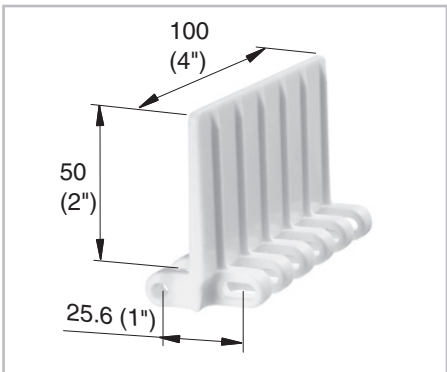


M2540 with middle and edge flights

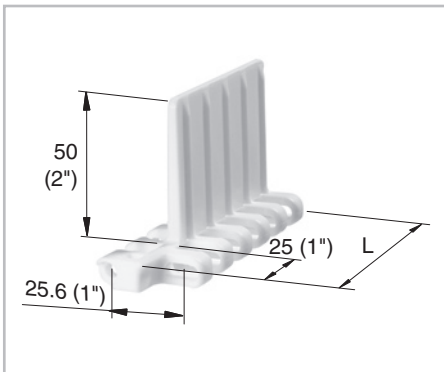


M2540 with sideguards and lane divider

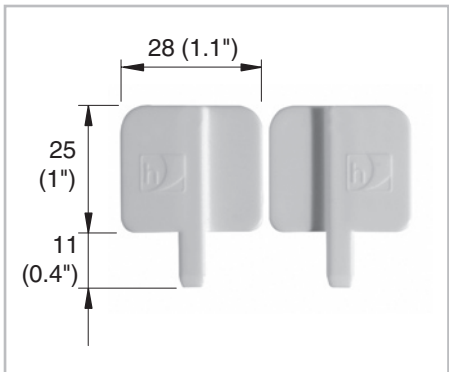
Flights are available in 50mm (2") height, sideguards and lane dividers in 25mm (1") height, see illustrations below. Flights are available with ribs on one side for better release of wet or sticky food products ("no-cling"). They can be cut to specific width and height if required. The collapse factor remains unchanged.



**Middle flight**  
M2540F05



**Edge flight**  
M254RF05 (right side)  
M254LF05 (left side)



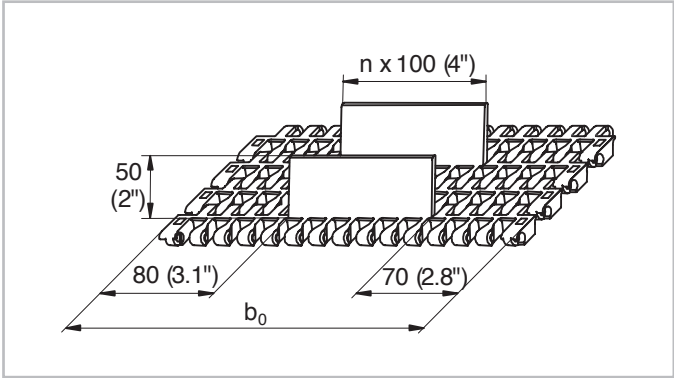
**Sideguards**  
M254RG02 (right side)  
M254LG02 (left side)

### Standard range of belt widths $b_0$ for belts with flights

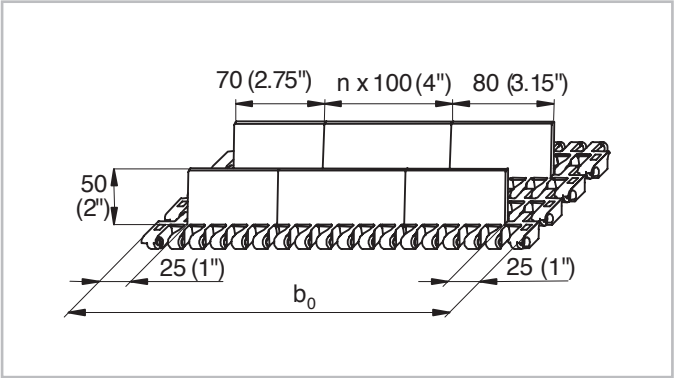
mm	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	etc.
inch (nom.)	8	12	16	20	24	28	32	36	40	44	48	52	56	60	etc.

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

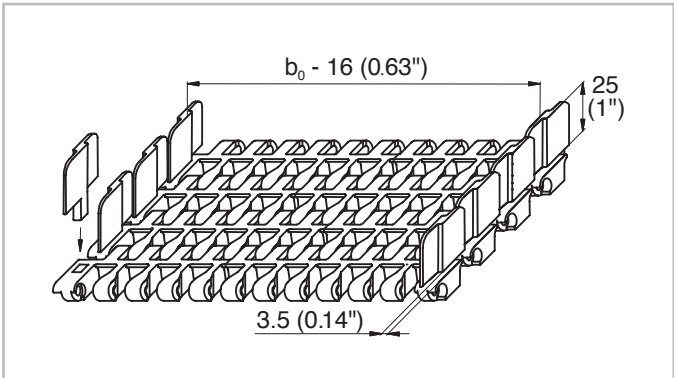
### Assembly conceptions for M2540 Radius Belt Flights and Sideguards



Middle flights only



Middle and edge flights



Sideguards only (clip-on version)

### Standard indents

The combination of flights and sideguards is possible, but not recommended. With sideguards hold down modules must be used. On the return way the belt has to be supported either on the flights or between flights and sideguards (gap only 15 mm (0.6 inches) wide). Do not support or guide the belt on the hold down tabs.

	left belt edge (running direction)	right belt edge (running direction)
Middle flights only (no indent flights)	70 mm (2.8")	80 mm (3.1")
Middle flights and indent flights	25 mm (1")	25 mm (1")
Sideguards	3.5 mm (0.14")	3.5 mm (0.14")

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