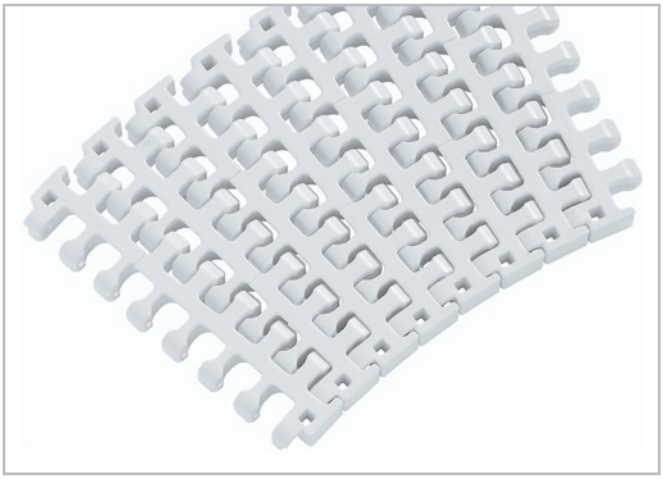
HabasitLINK® Radius 1-1/2" Pitch Belting
M3840 Radius Flush Grid 1.5"

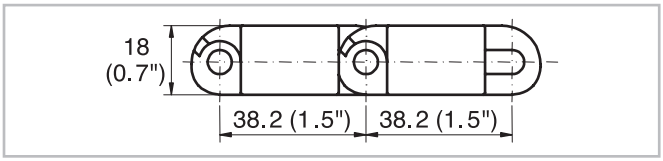
Description

- For radius and straight conveying (collapse factor 2.2)
- 31% open area; 50% open contact area; largest opening 7x19 mm (0.27"x0.75")
- Excellent for cooling and draining
- Open hinge
- Easy to clean
- Food approved materials available
- Rod diameter 6 mm (0.24")

Available accessories

- Flights
- Sideguards
- Hold down devices
- GripTop modules
- Lane divider





Belt data

Belt material		PP		POM
Rod material		POM	PA	
Nominal tensile strength F'_N straight run	N/m *lb/ft*	23000 *1575*	23000 *1575*	32000 *2192*
Nominal tensile strength F_N in curve [1]	N *lbf*	2000 *450*	2000 *450*	2400 *540*
Temperature range	°C *°F*	5 - 93 40 - *200*	5 - 105 40 - *220*	-40 - 93 -40 - *200*
Belt weight m_B	kg/m² *lb/sqft*	8.0 *1.64*	8.0 *1.64*	11.8 *2.42*

[1] For b_0 > 450 mm (18") 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 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*
60	*2.4*	100	*4*	150	*6*	150	*6*	250	*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 x 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	1.85	1.92	1.96	1.99	2.02	2.03	2.05	2.06	2.07	2.08	2.09	2.09	2.10	2.10
Belt width mm (nom.)	900	950	1000	1050	1100	1150	1200	etc.						
Belt width inch (nom.)	*36*	*38*	*40*	*42*	*44*	*46*	*48*	*etc.*						
Coll.fact. Q	2.11	2.11	2.11	2.12	2.12	2.12	2.13	etc.						

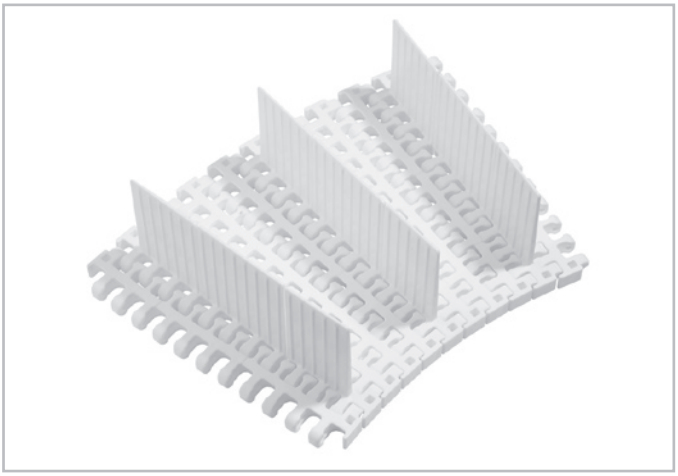
Belt widths larger than 1200 mm (48") are not recommended; *please contact Habasit.*
Real belt widths are in most cases 0.1% to 0.3% smaller.

Standard belt widths in increments of 50 mm (2"). Non-standard widths are offered in increments of 25 mm (1"). Smallest possible width 175 mm (7").

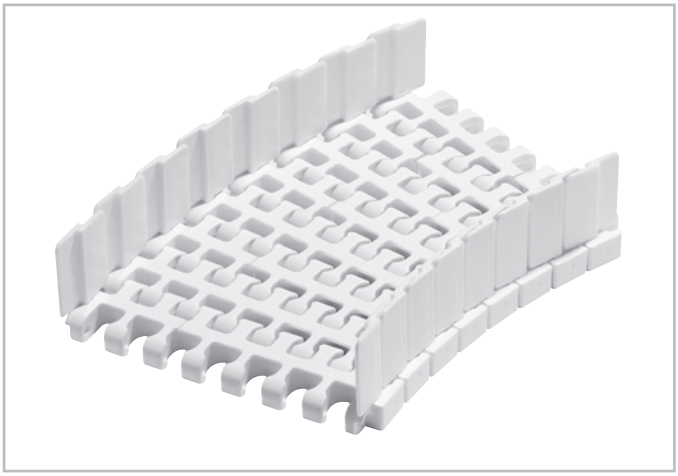
For detailed material properties refer to the HabasitLINK® Engineering Guidelines or contact your Habasit representative.

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.

Product Data Series M3800
Flights and Sideguards M3840

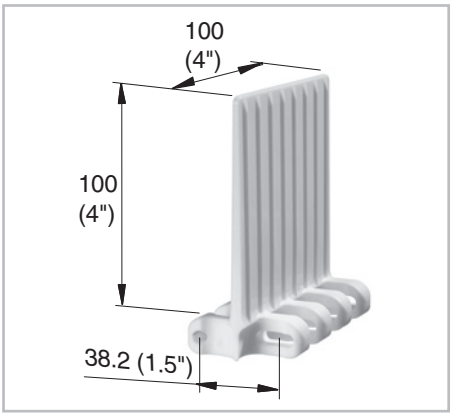


M3840 with flights

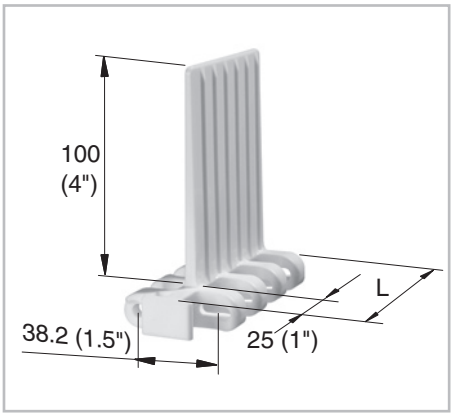


M3840 with sideguards

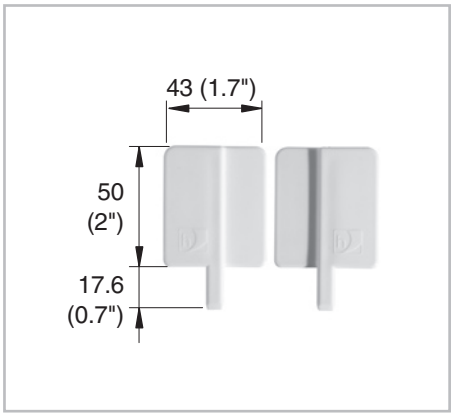
Flights are available in 100mm (4") height, sideguards in 50mm (2") height, see illustrations below. Flights are available with ribs on one side for better release of wet or sticky food products ("no-cling"). They can be cut to specific width and height if required. The collapse factor remains unchanged.



Middle flight
M3840F10



Edge flight
M384RF10 (right side)
M384LF10 (left side)
The total length L of the right and left type add to 200 mm *(8")*



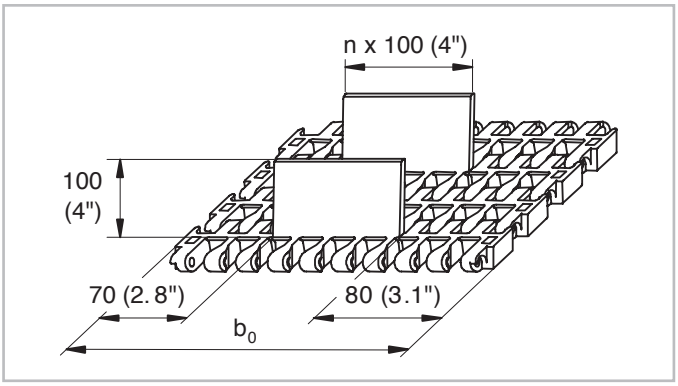
Sideguards
M384RG05 (right side)
M384LG05 (left side)
left and right version can be put on the opposite edge, (no functional problems) but they cannot be mixed.

Standard range of belt widths for belts with flights b_0

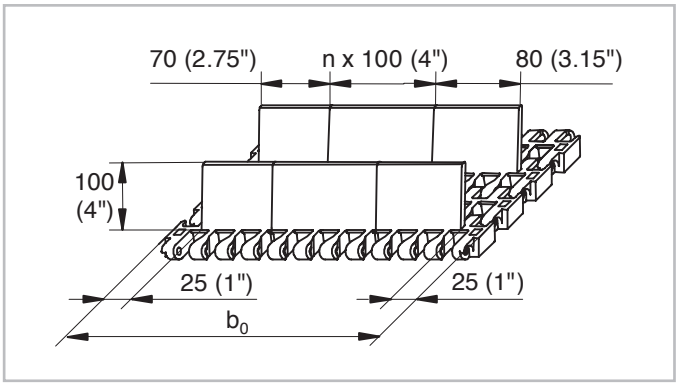
mm	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	etc.
inch (nom.)	*8*	*12*	*16*	*20*	*24*	*28*	*32*	*36*	*40*	*44*	*48*	*52*	*56*	*60*	*etc.*

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

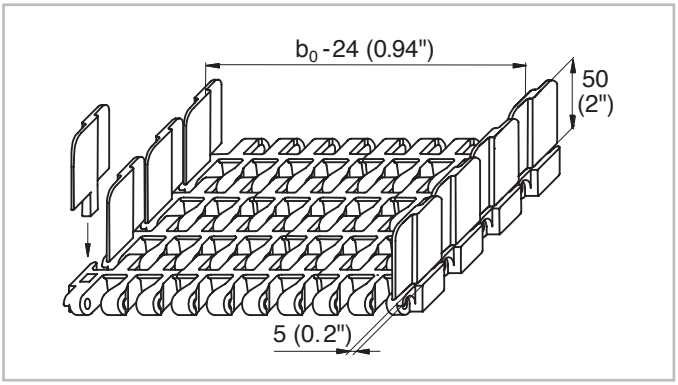
Assembly conceptions for M3840 Radius Belt Flights and Sideguards



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")* 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	5 mm *(0.2")*	5 mm *(0.2")*

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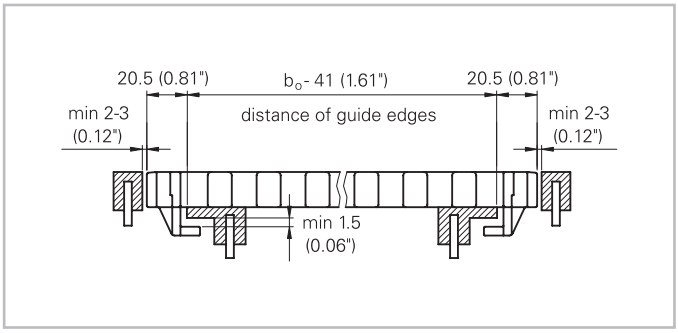
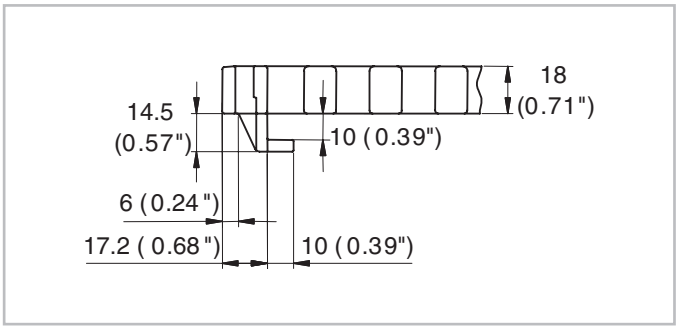
Product Data Series M3800
Hold Down Tabs for M3840

To avoid the belt flipping over or slipping off the inner guide rail in the curve, hold down guides are normally used. They are however not suitable if the conveyed goods are larger than the belt width or if side transfer over the belt edge is required. For these cases special modules equipped with hold down tabs (hook modules) are available for both belt edges.



Hold down modules (M3840H)
Hold down tabs are used for all applications where the products must be able to move over the belt edge. The use of hold down modules is also mandatory when applying sideguards.

Installation
Make sure to keep clearance between guides and hold down tabs. They are meant to act as lift-off safety devices and not as guides! They will, if in contact with the guides, wear off quickly and may increase the tension in the belt.
For these reasons the conveyor needs to be designed with the appropriate accuracy.
Minimum belt width 175 mm *(7")* (2 sprockets).



Sprocket sizes
The combination sprocket/shaft size has to be selected in such a way to avoid collision of the hold down tabs with the shaft. Minimum sprocket sizes: M38S1240Q, M38S1260Q

Note
The hold down tabs are not recommended to be used for radial guidance. They can be worn away too quickly. They should not be used to hang-up the belt on its return way.
Further design indications see Design Guide Radius Belts and Slider Support Systems.

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