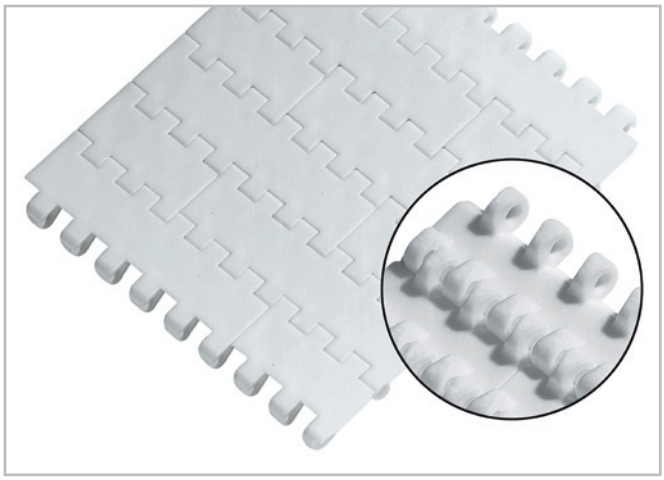
HabasitLINK® Straight 1" Pitch Belting
M2510 Flat Top 1"

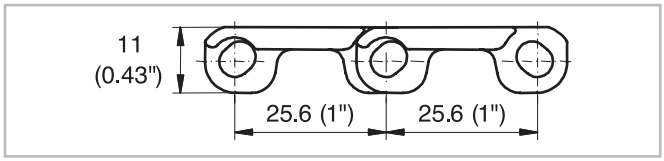
Description

- 0% open area
- Dynamic open hinge, easy to clean
- Food approved materials available
- Rod diameter 5 mm (0.2")
- "Open window" sprockets

Available accessories

- Flights and Scoops
- Sideguards
- Hold down devices





Belt data

Belt material		PP	PE	POM	
Rod material		PP	PE	PP	PA
Nominal tensile strength F'_N straight run	N/m *lb/ft*	14000 *959*	8000 *548*	16000 *1096*	21900 *1500*
Temperature range	°C *°F*	5 - 105 40 - *220*	-70 - 65 -94 - *150*	5 - 93 40 - *200*	-40 - 93 -40 - *200*
Belt weight m_B	kg/m² *lb/sqft*	4.9 *1.00*	5.2 *1.05*	7.3 *1.49*	7.3 *1.49*

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.)	50	100	150	200	250	300	350	400	450	500	550	600	650	700	etc.
inch (nom.)	*2*	*4*	*6*	*8*	*10*	*12*	*14*	*16*	*18*	*20*	*22*	*24*	*26*	*28*	*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"). Non-bricklayed belts 50 mm (2") and 100 mm (4") wide.

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.

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M2510 Flat Top 1"

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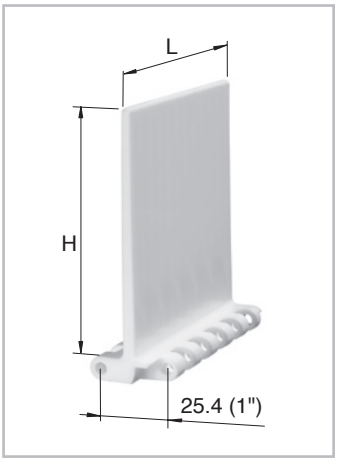
Product Data Series M2500
Flights and Sideguards Series M2500

HabasitLINK® Modular Belts are available with flights to convey products on inclined planes. The flight modules are injection molded one-piece designs that, when assembled, become an integral part of the belt.

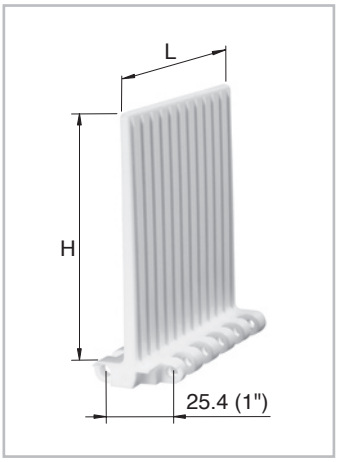
Flight modules are available with ribs on one side ("no-cling") for improved release of wet or sticky food products and can also be cut to non-standard heights.

	Flat Top flights straight open hinge (USDA)		Flat Top flights straight closed hinge		Flat Top flights bent (Scoop) open hinge (USDA)		Flush Grid flight corrugated open hinge (USDA)		Sideguards	
Code flight sideguard	M2510Fxx*		M2520Fxx*		M2510B07		M2533F07 M253JF07		M2520Gxx*	M252RGxx* M252LGxx*
Applicable for belt type	M2510 M2511		M2520 M2533		M2510 M2511		M2533		all 1" belts except M2531	
	height H	length L	height H	length L	height H	length L	height H	length L	height H	
mm *inch*	25 *1*	100 *4*	25 *1*	100 *4*	–	–	–	–	25 *1*	–
mm *inch*	50 *2*	100 *4*	50 *2*	100 *4*	–	–	–	–	50 *2*	–
mm *inch*	75 *3*	100 *4*	75 *3*	100 *4*	75 *3*	150 *6*	75 *3*	100 *4*	–	75 *3*
mm *inch*	–	–	100 *4*	100 *4*	–	–	–	–	–	100 *4*

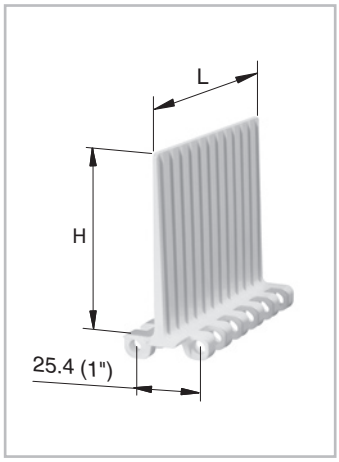
***Code xx** = height of flight: 25 mm = 02 50 mm = 05 75 mm = 07 100 mm = 10



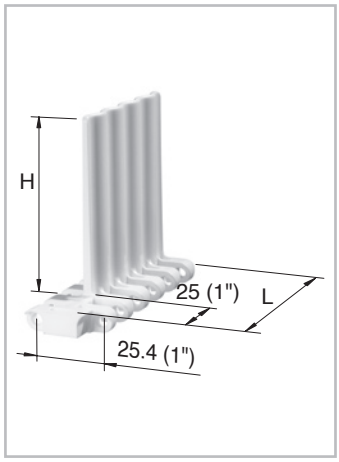
M2520Fxx
smooth side



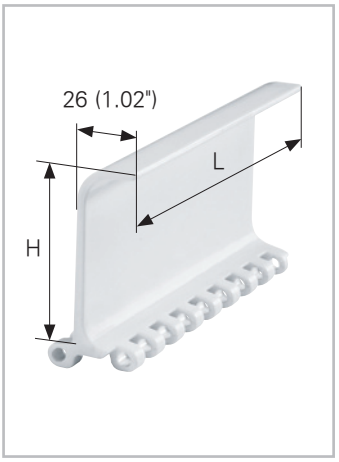
M2520Fxx
"no-cling" side (ribs)



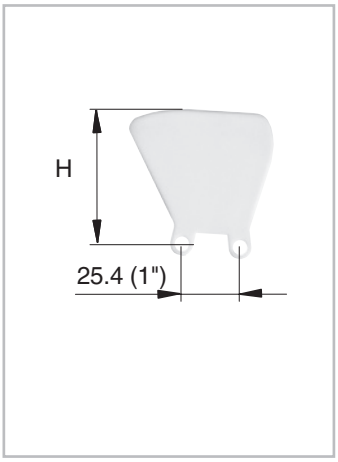
M2510Fxx
open hinge; "no-cling" side



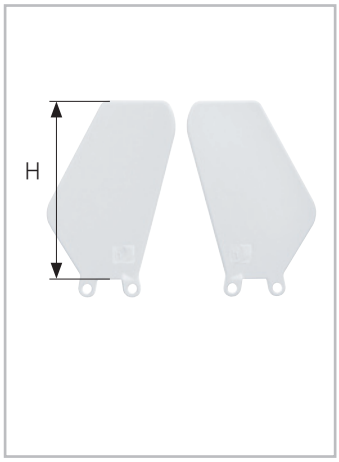
M253JF07, open hinge;
indent flight, corrugated



M2510B07, Scoop
open hinge



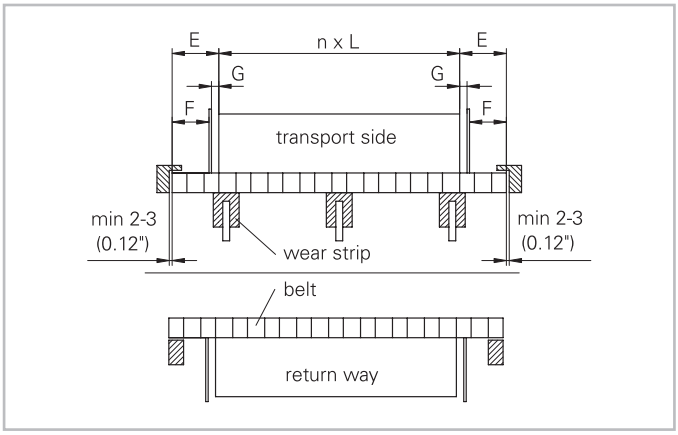
M2520G05



M252RG/FG10

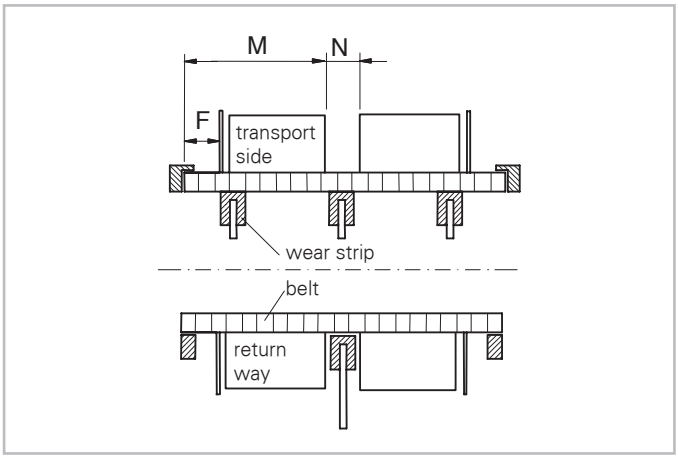
Indents (E)

The flight indent E is the distance between the edge of the belt and the edge of flight, and F is the distance between belt edge and sideguard. It is required for adequate support of the belt on its return way and hold down during back-bending applications (elevators). On short conveyors or with special support structure, the flights may also be applied over the full belt width (E = 0). (For the Flush Grid, flights edge modules with indents are available (fixed indent see illustration).)



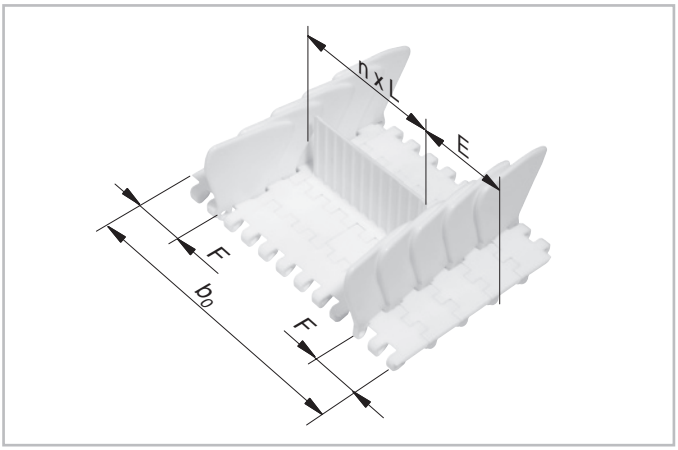
Notch (N)

The notch N is a gap in each row of flights, longitudinally aligned to allow the support of belts wider 600 mm *(24")* on its return way or in back-bending applications. The notch width (N) and the distance M from belt edge is a multiple of the link increment 16.67 mm *(0.66")*. For M2500 series the minimum notch width is 33.3 mm *(1.31")*.

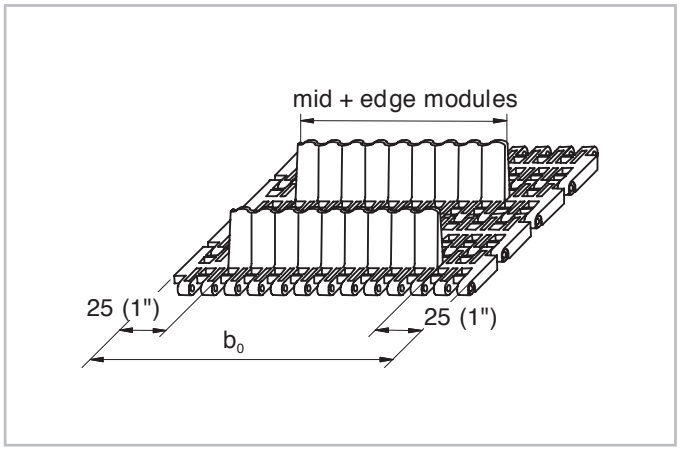


Installation of flights and sideguards; indents
(For radius belts please refer to the specific data sheets.)
The sideguards are usually installed with a gap (G) between the sideguards and the flights. It is also possible to install the sideguards with a minimum gap between flight and sideguard of approx. 2 mm *(0.08")*. There is a certain risk for rubbing and abrasion between the flights and the sideguards. The distance E_1 between the sideguards and the hold down- and support-shoes/wearstrips should not be smaller than 5 mm *(0.2")*. For further details see Assembly Guide.

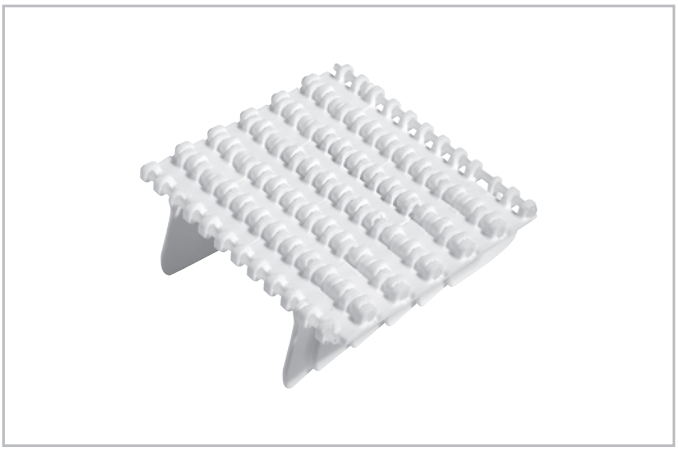
	Possible flight indents E (not for M2533F05 edge flight)									
	Flight only		Flight + Sideguard with gap (G ~8 mm *(0.3")*)				Flight + Sideguard without gap (G ~2 mm *(0.08")*)			
	E		E		F		E		F	
	mm	*inch*	mm	*inch*	mm	*inch*	mm	*inch*	mm	*inch*
Flight over full belt width	**0**	*0*	–	–	–	–	–	–	–	–
Module cutting necessary	33	*1.3*	33	*1.3*	16	*0.65*	33	*1.3*	25	*1*
Standard, no module cutting	**50**	*2*	**50**	*2*	33	*1.3*	**50**	*2*	41	*1.6*
Module cutting necessary	66	*2.6*	66	*2.6*	50	*2*	66	*2.6*	58	*2.3*
Module cutting necessary	83	*3.2*	83	*3.2*	66	*2.6*	83	*3.2*	75	*3*
Standard, no module cutting	**100**	*4*	**100**	*4*	83	*3.2*	**100**	*4*	93	*3.7*



M2510 with flights M2510F05 and Sideguards M2520G05 (top view)



Flush Grid flight M2533F07 + M253JF07



M2510 with flights M2510F05 and Sideguards M2520G05 (bottom view)

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Product Data Series M2500
Hold Down Devices for 1" Belts, M2500V01

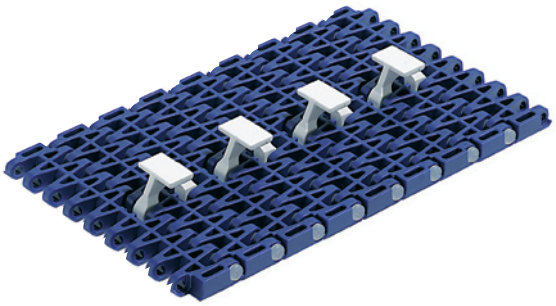
For elevators with back-bending (Z-conveyors) **hold down devices** are used to keep the belt down when it is changing from horizontal to inclined direction. For wide belts (e. g. > 600 mm *(23.6")* wide), slider shoes on the belt edge are often not sufficient to keep it on the track. In such cases hold down devices on the bottom side of the belt are used to guide it through the back-bending curve. Further details see design guide.

Compatibility: The hold down device can be put into M2500 1" HabasitLINK® straight running modular belt. The modules are inserted into the prepared position, one module every second row. As long as link increment is (16.6 mm) respected any position over the belt width is possible.
For a center positioning consider an offset "e" of 4.2 mm. Allow the necessary distance for the sprocket engagement!

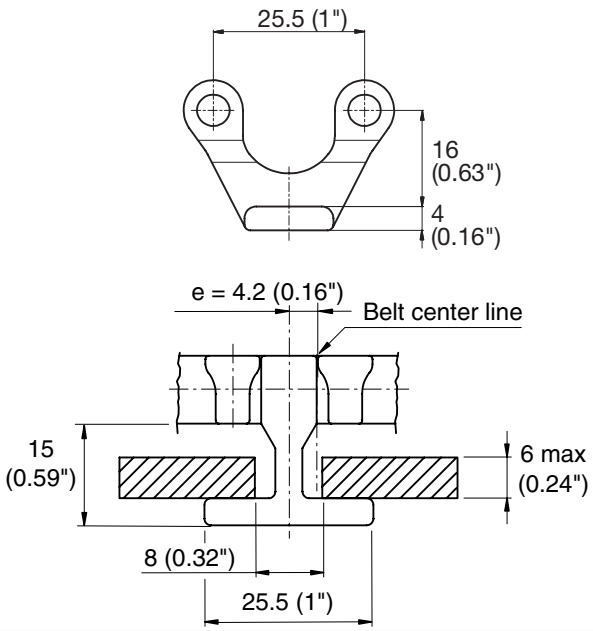
Back-bending radius R: min. 250 mm *(10")*

Sprockets: minimum size
M25S12 with 40 mm / 1.5" square bore
M25S12 with 30 mm round bore
M25S10 with 1" square bore
M25S10 with 30 mm round bore

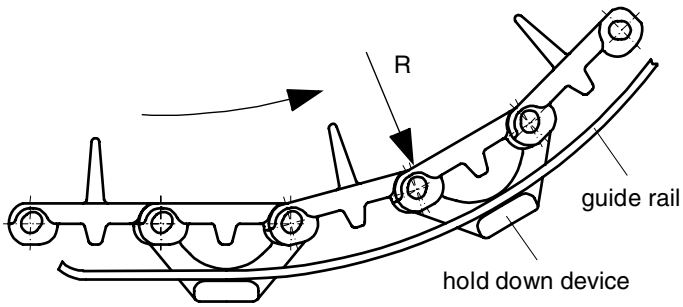
Standard materials: POM white
Other materials on request.



M2533 with M2500V01



Hold down device M2500V01



It is very important that the guide rail is very smooth, without joining. It is also important that enough clearance is provided to allow the belt to expand or shrink.

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