



S-WALL™

Steep and Vertical Incline
Conveyor Belts



PHOENIX

Extreme Conveyor Belt Solutions

Steep Angle Conveyor Belts **S-WALL™**

Phoenix S-Wall™ corrugated sidewall belts are designed for the transportation of bulk materials on steep or vertical incline angles. The range of profiles and base belts available, means we are able to cover all applications with inclines from 0 to 90 degrees.

Benefits

- With the ability to convey at angles up to 90 degrees, the system ensures the maximum utilisation of space.
- Eliminates the need for transfer points, which in turn, reduces the risk of spillage.
- With the extensive range of belt sizes available, the Phoenix S-Wall™ system is capable of handling almost all materials.
- The reduced amount of moving parts means the system requires limited maintenance activities.

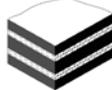
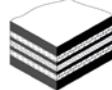
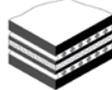
Product range

S-Wall™ belts can be supplied with **S (light duty)**, **HDS (Medium – Heavy Duty)** and **XHDS (For Special applications)** Sidewalls.

Sidewalls can be supplied with or without fabric reinforcement. Fabric reinforcement comes as standard in HDS120 and above. The different cleat types are combined with the respective sidewalls, the geometry of the cleat will depend on the lift angle and material.

S-Wall™ corrugated sidewalls and cleats are available in standard, oil, and heat resistant quality. Special qualities such as flame retardant are available on request.

Base Belts

Base Belt type	Strength Thickness N/mm	Cover Thickness mm	Weight kg/m	Min. Pulley Diameter mm
 Type XE	250/2	2:2	9.40	200
	400/3	4:2	13.50	315
	500/3	4:2	13.75	400
	630/4	4:2	15.20	500
	800/5	4:2	16.85	630
 Type XE+2	400/3+2	4:2	12.10	315
	500/3+2	4:2	12.60	400
	630/4+2	4:2	14.40	500
	800/5+2	4:2	16.10	630
	1000/5+2	4:2	17.80	800
	1250/5+2	4:2	18.25	1000
 Type XE-SC+2	315/2+2	4:2	13.70	315
	400/2+2	4:2	14.50	315
	500/2+2	4:2	15.20	400
	630/4+2	4:2	16.70	500
	800/5+2	4:2	18.00	630
	1000/5+2	4:2	19.50	800
 Type XST-SC*	1600	8:8		1250
	2000	8:8		1250
	2500	8:8	Please Enquire	1400
	3150	8:8		1400
	3500	8:8		1600
	4500	8:8		1600

The above are standard heights, non-standard are available, please enquire.
* Belt weight will be decided by the final belt design which is dependant on the application.

Belt Composition

- X = Cross-Stabilised construction
- E = Polyester Tension Plies
- +2 = Number of Separate Cross-Stabilising Plies
- SC = Steel Cord Cross-Stabilised
- XST-SC = Steel Cord

Cover Thickness

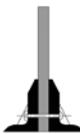
Above are standard constructions, belts can be supplied with non-standard covers to special order.

Belt Strength

Above are standard items, others available to special order.



Cleats

Cleat types	Height mm	Base Width mm	Weight mm	Min. Pulley Diameter mm	Production Length mm
Type T 	55	80	1.45	125	3/5
	75	80	1.80	150	3/5
	90	110	2.50	250	3/5
	110	110	2.80	315	3/5
	140	160	6.60	400	2.5
	180	160	8.30	500	2.5
	230	175	10.46	630	2.5
Type T-XS 	230	210	17.85	630	2.5
	250	220	18.60	630	2.5
	280	230	19.50	800	2.5
	360	230	22.50	1000	2.5
	Type C 	35	55	0.50	100
55		75	1.50	125	3/5
75		80	2.00	150	3/5
90		110	2.30	250	3/5
110		110	2.50	315	3/5
Type TC 	75	80	1.80	150	3/5
	90	110	2.50	250	3/5
	110	110	2.80	315	3/5
	140	160	6.60	400	2.5
	180	160	8.30	500	2.5
	230	175	10.46	630	2.5
Type MBTC 	110	160	7.90	315	3
	140	160	9.25	400	3
	180	160	11.50	500	3
	230	160	13.50	630	3
	250	160	14.60	630	3
	280	160	17.65	800	3
	360	160	19.25	1000	3
Type TC-XS 	230	225	17.95	630	2.5
	250	225	18.90	630	2.5
	280	225	22.50	800	2.5
	360	230	26.00	1000	2.5

The above are standard heights, non-standard are available, please enquire.

Note

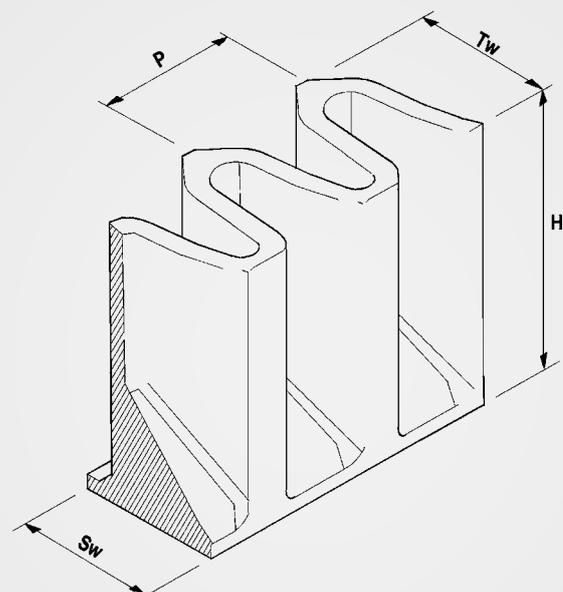
Pulley diameters shown are normal quality, and standard thickness. Please enquire for recommended diameters on belts with special quality covers or different tensile ratings as these may require larger diameters.

Sidewalls

Type	H	S _w	T _w	P	Min. Pulley Diameter mm	Weight kg/m
S*	40	35	30	30	125	0.60
	60	50	45	40	160	1.80
	80	50	45	40	200	1.80
	120	50	45	40	250	2.23
	120	75	70	60	315	2.67
	160	75	70	60	400	4.77
	HDS*	200	75	70	60	500
250		75	70	60	630	7.55
280		75	70	60	800	8.60
300		75	70	60	800	9.30
XHDS**		300	100	90	75	800
	400	100	90	75	1000	18.75

* Denotes available with or without Fabric Reinforcement.

** Available only with Fabric Reinforcement.





PHOENIX conveyor belts for all kind of applications – up to the strongest and heaviest belts ever built.

Please contact us for any assistance regarding your conveyor belt requirements.

Phoenix Conveyor Belt Systems has the most modern testing centre worldwide for developing conveyor belts. Extensive quality tests ensure the technological lead of Phoenix conveyor belts.

Phoenix production locations meet the ISO 9001 quality standard. The certification according to ISO 9001 comprises quality assurance during development, production, assembly and distribution. It therefore completely covers all of the areas which lead to higher standards of products and services. Phoenix Conveyor Belt Systems GmbH fabricates according to all the nationally relevant quality standards like DIN, SANS, MSHA, RMA, BS, AS, CSA, etc.