



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.

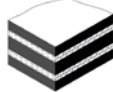
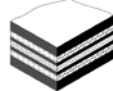
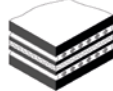
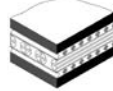
Product range

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
 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
 Type XST-SC+	1000/5+2	4:2	19.50	800
	1250/5+2	4:2	21.40	1000
	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 C 	35	55	0.50	100	3/5
	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
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

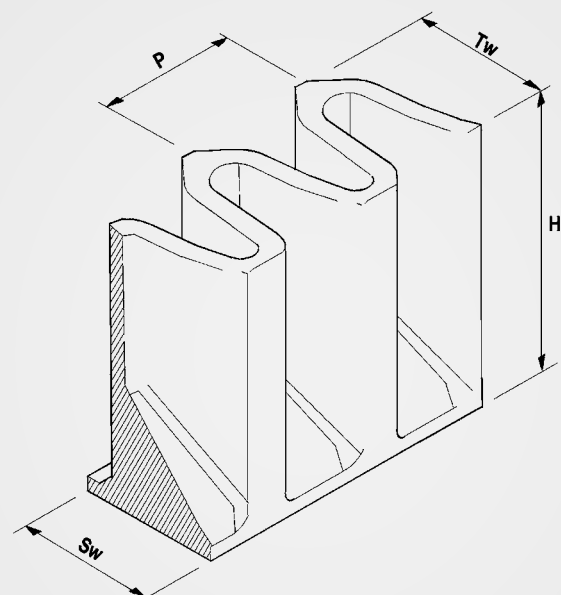
Pulley diameters shown are normal quality, and standard thickness. Please enquire for recommended diameters on belts with special quality covers or different tensile ratings as these may require larger diameters.

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 Belt Systems GmbH has established a respected global market presence based upon innovative product design and cutting edge technology.

Our line of conveyor belt products is developed from engineered product designs that have been tested and proven to provide the highest level of performance in conveying applications worldwide. Dedication to all aspects of the manufacturing process and the highest level of quality control standards ensure that our products provide the best value to our customers. With over 100 years of experience and a multitude of world records, Phoenix Conveyor Belt Systems GmbH continues to demonstrate its position as the global leader in conveyor belt technology.

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