

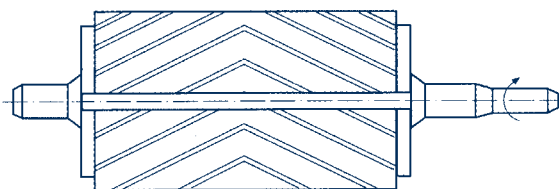
Ceramic drum lagging

STS 4000 is a drum lagging of high quality that is mounted on the drive drum of rubber conveyor belt installations. Even in extremely wet and polluted circumstances the high friction coefficient guarantees an excellent grip, maximizing the functionality of your conveyor. Next to characteristics such as high wear resistance, heavy duty design, insensitivity to humidity, long life expectancy, nonflammable, operational temperature range between minus 40° and 120° degrees Celsius, it also offers the possibility to reduce the tensioning of the belt, increasing the life expectancy of the belt itself. STS 4000 ceramic drum lagging can be supplied for any drum diameter and drum length, in 2 or more shell-parts and can be mounted by means of special bolts (DIN 603) or by means of welding. When using the type with 3 or 4 shell parts it is even possible to exchange the parts on the spot if need be, without even taking the drum out of the installation.

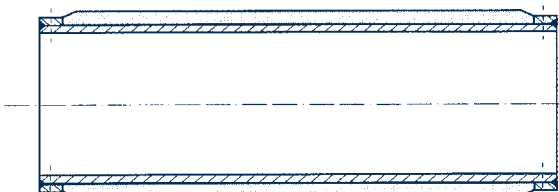
In summary, STS4000 ceramic drum lagging is in any case, under heavy operational circumstances, the best solution to your drum lagging requirements.



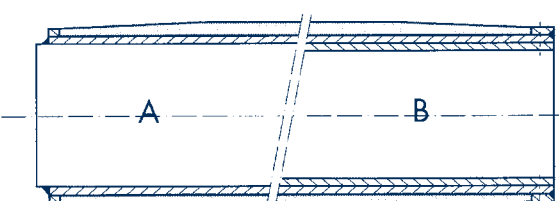
Type of profiles and mounting:



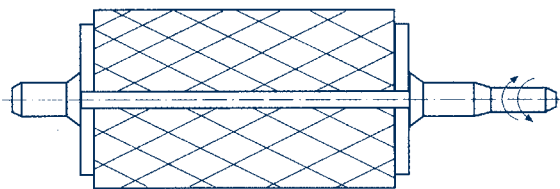
Type of profile: Fish-grate (one way rotation)



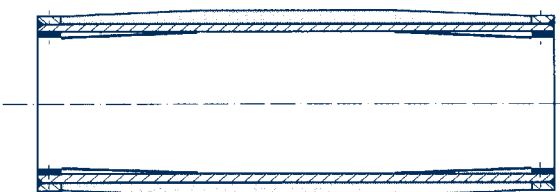
STS 4000 Shell parts, mounting on a cylindrical drive drum by means of special bolts.
Surface cylindrical, thickness ceramic 12 mm.



STS 4000 Shell parts, mounting on a cylindrical drum by means of welding: A=corner weld, B=head weld
Surface trapezium shaped, thickness ceramic 12 / 8 mm.



Type of profile: Diamond (reversible)



STS 4000 Shell parts, mounting on a crowned drive drum by means of fill rings and special bolts.
Surface trapezium shaped, thickness ceramic 12 / 8 mm



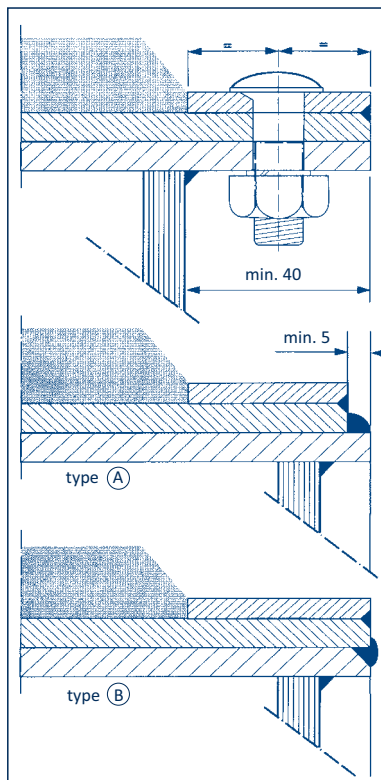
STS 4000 ceramic drum lagging, mounted directly on a cylindrical drum. Maximum thickness ceramic 15 mm.

Ceramic drum lagging:

Technical data:

Number of shells	
Drum diameter:	up to 320 mm = 2-parts
	320 - 600 mm = 2- or 3-parts
	600 - 1000 mm = 3- or 4-parts
	1000 - 1400 mm = 4- or 5-parts
	over 1400 mm = 5-parts
Thickness of steel shells	
Drum length:	up to 1150 mm = 4 mm
	1150 - 1400 mm = 5 mm
	1400 - 1600 mm = 5- 6 mm
	over 1600 mm = 6 mm
Reinforcement strips (and drill holes)	
Drum length:	up to 600 mm = 30 x 4 mm (M12)
	600 - 1150 mm = 40 x 4 mm (M16)
	over 1150 mm = 50 x 4 mm (M16)

Above mentioned data may differ.



Mounting the steel parts:

In general:

- With the type „Fish Grate“ the point of the „V“ points in the direction of the rotation of the drum.
- The shell-parts have to be well-aligned on the drum. Never use force when mounting.
- With the crowned rums the preference is to first turn the run surface cylindrical, or so-called fill-rings should be welded on the drum.
- Due to the small measurements differences and the extension and / or shrinking of the shell-parts we recommend a minimal inbetween-space of 4 mm.
- To prevent damage of the ceramic lagging we recommend to joint the rubber conveyor belt for the installation by means of vulcanising instead of a metal connection.

Mounting with bolts:

- Mark the shell parts, lay them on the drum and clamp the parts in the middle with glue clamps. Mark the drum according to the shell parts and copy the holes of the shells onto the drum. Remove the shells.
- Drill holes in the drum. Lay a shell on the drum and place the special bolts and fasten these by hand. When all the shells have been fastened this way, screw the bolts in solid symmetrically and per side, starting from the middle, evenly according to the inbetween-space.

Mounting by welding:

- Place the shells on the drum and clamp, per shell from the middle to the sides, the reinforcement-strips on the drum.
- Make welds of 40-50 mm and an inbetween space of ± 100 mm on the drum. Weld side by side and per shell.
- Weld the possible “open” spaces.
- Attention! Welding should be done preferably electrically because the heat in the shells should not supersede 120° degrees Celsius.

Measurement schedule:

Number	:pieces
Number of shells	:-parts
Drum diameter	- cylindrical*	: \emptysetmm
	- crowned - middle	: \emptysetmm
	- side zone	: \emptysetmm
Drum length (DL)	:mm
Belt width	:mm
Lagging Length	:mm
Surface lagging	:	cylindrical / trapezium*
Type	:	fish grate / diamond*
Fixation	:	bolted/welded*
Crowned drum	:	including / excluding “fillrings”*
Bolted drum	:	including / excluding bolts*
Welded drum	Type A:	shell length = DL -(min. 2 x 5): mm
	Type B:	shell length = DL: mm

* Delete as applicable