

# CERALAG-02

## CERAMIC LAGGING SHEETING

**CERALAG-02**, the latest addition to THEJO's Ceramic lagging offering. It is designed to service the challenging environments of high belt tensions that lead to potential belt slippage and high wear.

The proprietary design of oblong hexagonal tiles, ensures 37% ceramic coverage on the sheet, offering larger area of ceramic contact with belt. Wide horizontal grooves provided between each row of tiles facilitates drain of water, slush and fine dust particles effectively towards either sides of the pulley, during rotation.

Each ceramic tile is anchored deep into and moulded to rubber on 7 sides, achieving high pull out strengths.

The ceramic tiles are made from high content Alumina Oxide ( $Al_2O_3$ ), 92% or more, making it extremely wear resistant and tough.

Special bonding layer on the sheets promotes bond strengths between metallic surface of the pulley and the lagging, when used with appropriate cold bonding cements.

CERALAG-02 is available in various thickness to suit various duties of applications. They are available in strip form and helps in convenient handling during installation, easy application procedures, maintenance of minimal stock for different pulleys, and reduced wastage.

### APPLICATION

CERALAG-02 is ideal for heavy duty application of drive pulleys. They are also found to be suitable in cement and sinter based applications for prevention of carry back build up on the snub pulleys.



### Technical Specification

Shore hardness ( ASTM D2240 )	60+/-5° A
Elongation at break ( ASTM D412 )	> 530%
Specific Gravity	1.14 +/- 0.05
Tensile Strength ( ASTM D412 )	>175 Kg/cm <sup>2</sup>



### Dimensional Specifications

CERALAG-02 sheets are available for extreme heavy duty applications.

The strips come in 262mm width, and length up to 2495mm, for ease in application and adaptability to various pulley diameters.

### Shelf Life :

36months @ < 20°C.

### Adhesive Systems :

Metal Primer :TPR – 1400  
 Adhesive System :TBS 3001, TBS 3000 or TN9000 with respective hardener compounds.

Product Ordering Code	Max.Length of Sheet (mm)	Width of Sheet(mm)	Lagging Thickness(mm)	Ceramic Tile Thickness (mm)
<b>Sheeting for Extreme Heavy Duty Application</b>				
TPLCR 02-16-11 -XD	2495	262	16	11
TPLCR 02-20-11-XD	2495	262	20	11

**Ordering Code : TPLCR 02-16-11-550-XD**

**TPLCR02 : Ceralag O2**

**16 : Lagging Thickness**

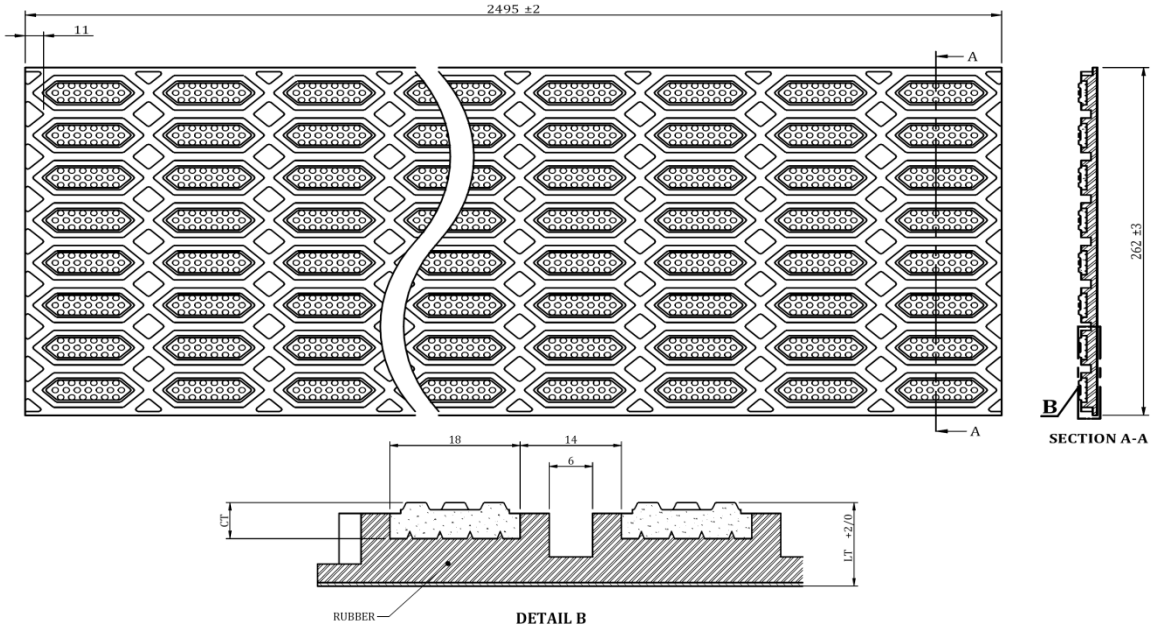
**11 : Ceramic Tile Thickness**

**550 : Pulley Face Width**

**XD : Extreme Heavy Duty**

**Please Note :**

Sheet is available in various lengths to suit pulley widths. All dimensions are subject to Tolerance of +/- 10% as per ASTM D412.



**Calculations for raw material required for CERALAG-02 lagging**

1. Pulley circumference, mm (C) :  $3.14 \times (\text{pulley diameter in mm} + \text{Lagging thickness in mm})$
2. Number of sheets required, nos (Sn) :  $(C/262)$
3. Length of sheet, mm (Sl) : pulley face width in mm + 50mm

**Surface Preparation:**

Ideally the Steel surface must be blasted to a metallic white finish. A preparation degree of Sa2½ as specified in DIN EN ISO 12944-4 and a roughness degree of “medium (G)” as specified in DIN EN ISO 88503-1 must be achieved. The blasted surface should be primed immediately.

**Application Procedures:**

Agitate the metal primer container properly to ensure sedimentation of the contents is avoided. Apply the Primer on the metal surface of the pulley and allow to dry well. Prepare the adhesive with requisite hardener compound and apply the same on the metal surface and rubber sheet. The first coat is allowed to dry completely. The second coat may be applied

and allowed to sufficiently touch dry only, exhibiting tacky property required for closing the bond.

The coated rubber sheet is then uniformly and firmly pressed down on to the metal surface and consolidated using hand tools, in order to achieve good bonding during the curing process. Care to be taken while hammering the ceramic tiles, in order to avoid breakage of the tile.

**Health & Safety:**

Adequate ventilation shall be provided during execution of work. All vapors that are produced during the execution of the lagging should be continuously suctioned off at the bottom level. Follow specific instructions if any.



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