

**INNOVATION.
NOT DUPLICATION.™**



PROTECH™ RUBBER CERAMIC MATTING

H-E PARTS INTERNATIONAL (H-E PARTS) SPECIALIZES IN PROVIDING WEAR MANAGEMENT SOLUTIONS. OFFERING A FULL RANGE OF PROTECH™ WEAR PROTECTION PRODUCTS, H-E PARTS PROVIDES THE RIGHT MATERIAL OR COMBINATION OF MATERIALS FOR EACH APPLICATION.

PROTECH™ RUBBER CERAMIC MATTING APPLICATIONS

The ProTech™ rubber ceramic matting product extends the ProTech™ range of wear products, and provides an alternative over traditional metallic wear products where mild to moderate impact forces and/or fast moving sliding forces prevail. The matting is made from zirconia toughened alumina (ZTA) and is vulcanized with natural rubber.

Typical applications where ProTech™ rubber ceramic matting can be utilized:

- Cone crusher main frame liners
- Screening chutes
- Material deflectors
- Ball mill discharge chutes
- Transfer chutes

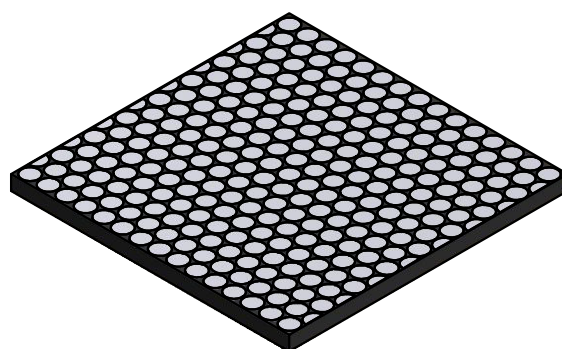
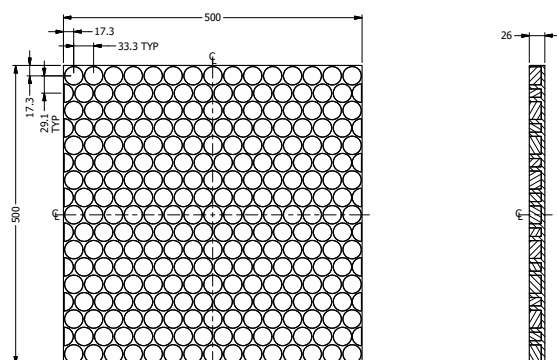
Typical conditions of use:

- Material size <75mm
- Impact angle 0° - 50°
- Drop height 0 - 2.5m

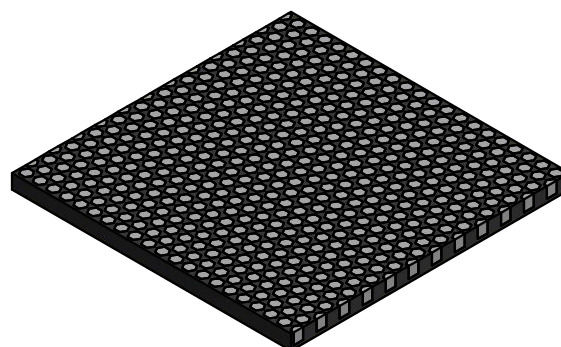
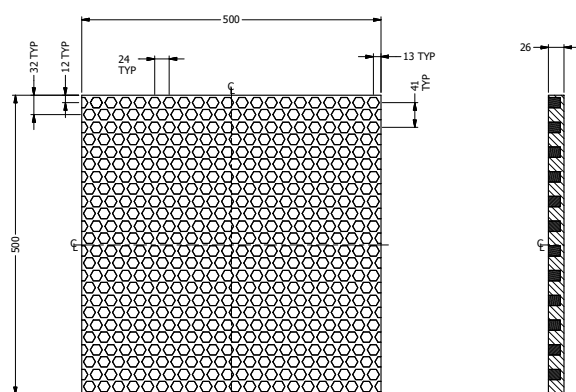


CONFIGURATION OPTIONS

CYLINDER



HEXAGONAL



DIMENSIONS

LENGTH (MM)	WIDTH (MM)	THICKNESS (MM)	THICKNESS WITH BACKING PLATE (MM)	CONFIGURATION	CERAMIC INSERT THICKNESS (MM)
500	500	26	31	CYLINDER	20
600	300	26	31	CYLINDER	20
500	500	26	31	HEXAGONAL	20
600	300	26	31	HEXAGONAL	20

FASTENING METHODS

- Direct bond, or 5mm backing plate with welded studs

PROPERTIES

MICROSTRUCTURE		MECHANICAL PROPERTIES		THERMAL PROPERTIES	
Composition	80% Al_2O_3 + ZrO_2	Compressive Strength (MPa)	2900	Max working temp. (°C)	1500
Density (g/cm ³)	4.4	Bending Strength (MPa)	650	Conductivity (W/mK)	16
Water Absorption (%)	0	Fracture Toughness (MPa.m ^{1/2})	5.8	Expansion Coefficient (x10 ⁻⁶ /K)	9.0
Porosity (vol. %)	0	Vickers Hardness (kg/mm ²)	1480	Shock Resistance (ΔTc)	300

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CRUSHING SOLUTIONS

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