



Cast basalt tiles / bricks

Cast basalt is a mineral material produced by melting natural basalt at a temperature of approximately 1300°C, followed by casting into moulds. This contributes to its superb physical and chemical properties.

We offer cast basalt tiles for coal bunkers and chutes. These cast basalt tiles are bedded as well as jointed in cement/special bonding agents like resins depending upon application. These tiles mostly find application in automotive industry and are designed to provide long-lasting lining and enhancement to involved operational life cycle for both plant as well as equipment.

Data of Cast basalt tiles

Chemical component

SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	TiO ₂	CaO	MgO	K ₂ O	Na ₂ O	FeO	P ₂ O ₅	MnO
42-45%	13-16%	13-14%	2.2%	10-12%	10-11%	4.5%	4.5%	13-14%	<1%	<1%

Physical property

NO.	ITEM	PERFORMANCE VALVE
1	Specific gravity	2.9-3.05gm/cc
2	Compressive strength	3000-4500kg per sq cm(min)
3	Bending strength	300kg per sq cm(min)
4	Water Absorption	0%
5	Solubility in Acids	0.6%
6	Hardness	8(MIN.)Moh Scale
7	Modules of elasticity	11.1×10 ⁴ N/mm ²
8	Expansion coefficient (room temperature to 60°C)	0.75×10 ⁻⁵ /K
9	Thermal Conductivity	1.15W/mk
10	Special Heat Capacity	0.8kj/Kg.K
11	Highest Temperature For application	350°C

Advantages:

- * Utilizing Cast Basalt enhances and improves operational life of plants.
- * These are best suited for jobs where extensive cutting is needed.
- * We can also deliver pre-cut tailored tiles based on the considerations of vibration, impact and other factors at client's end.





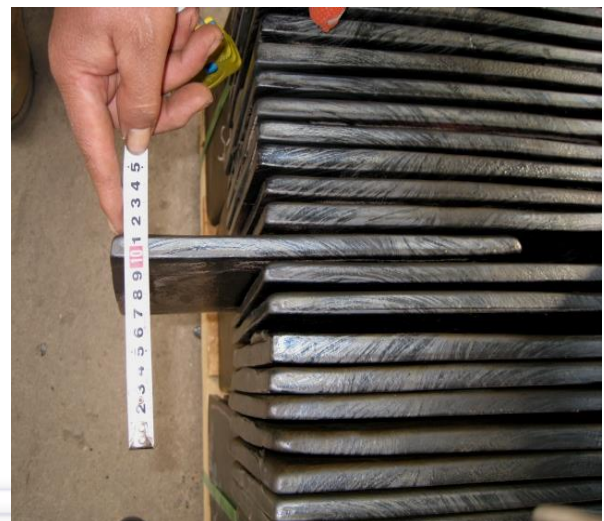
Cast basalt tile standard specification

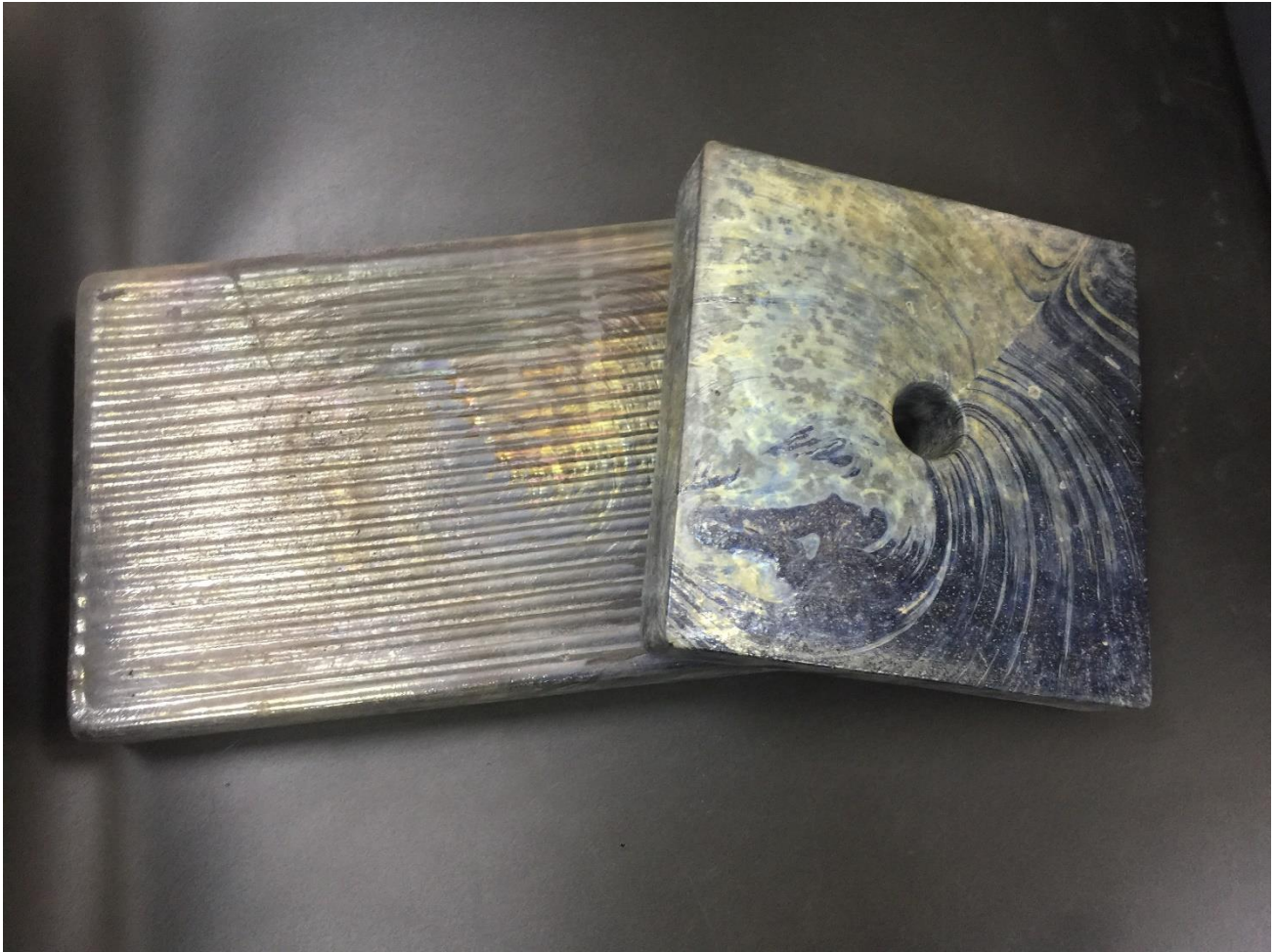
Thickness(mm)	Length * Width(mm)
16-20	< 200
20-30	< 300
30-50	< 400

Combined with the cast basalt production technology. We can manufacture cast basalt tiles according to various sizes and shapes.

Ultra-thin cast slate: the thinnest 12mm

The self-developed ultra-thin Cast basalt tile is a new product of the international advanced level.





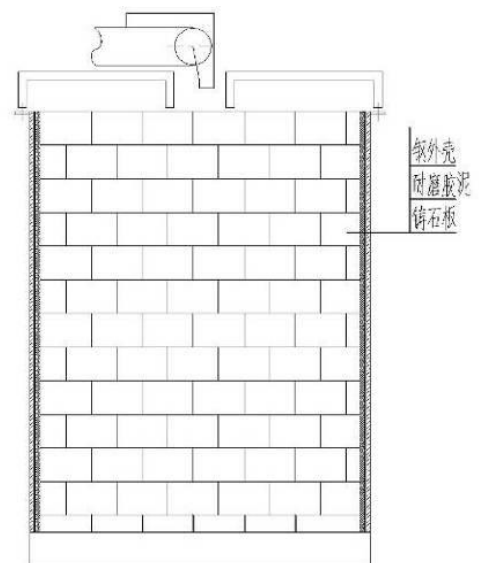


Application

Cast basalt tiles is mainly used in thermal power plants, steel mills, mines and other parts with heavy wear, such as raw coal bunkers, mine bins, coal unloading trenches, hoppers, ore troughs, flotation machines, chutes and other parts.

Round coal bunker lining: ultra-thin cast slate
14-20mm thick;

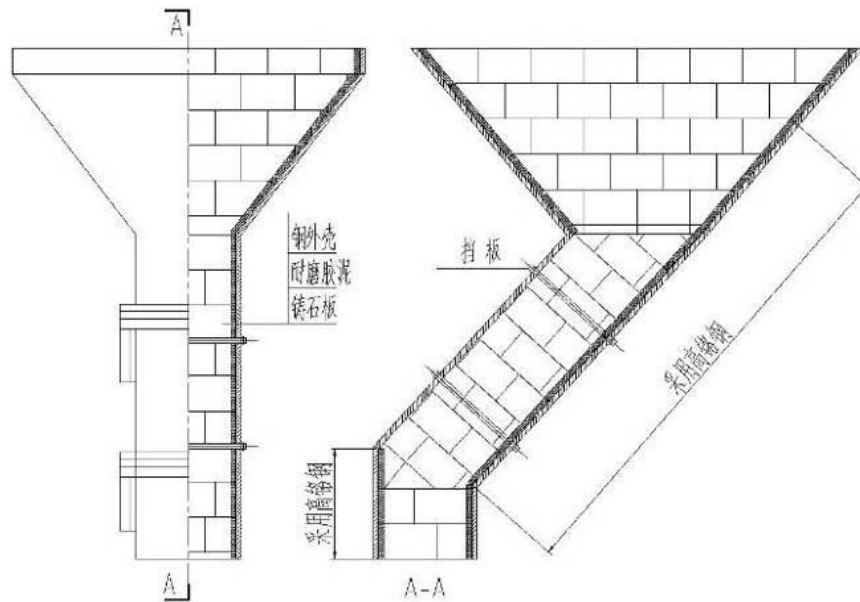
Coal discharge ditch lining: commonly used 25-
30mm thick cast slate;





Coal drop bucket lining:

lined with cast slate, generally 25-30mm (high chromium steel is best used for coal drop points);



Slag fishing machine liner:

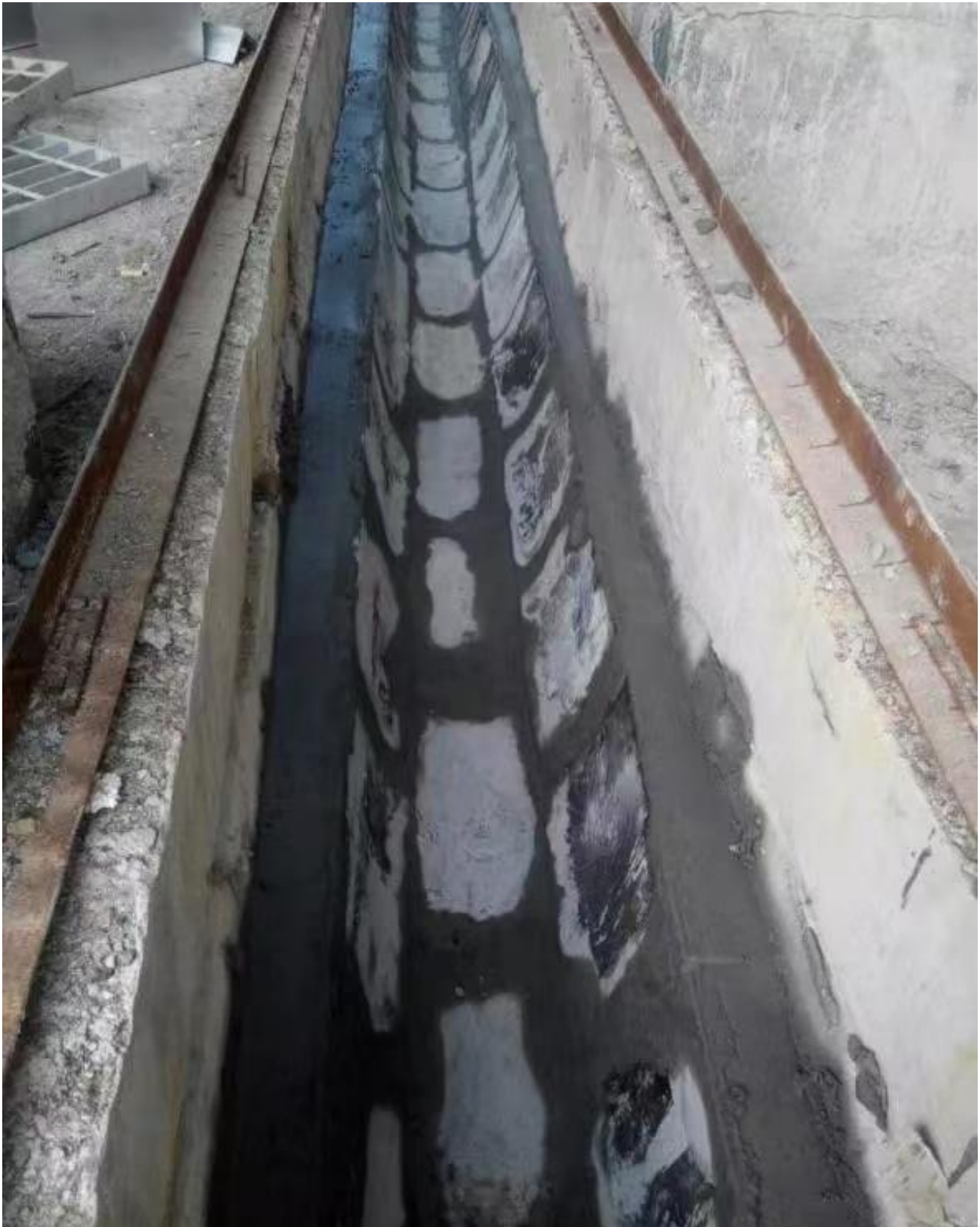
cast slate hexagon, quadrilateral, rhombus;





Ash ditch:

straight ditch, curved ditch, confluence, fork;



Brake discs in the automotive field:

Cast basalt tiles are used in the field of automotive brake testing



Delivery



List of Core values

Professional, Reliable, Efficient

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Collect steel pipes and fittings

