

CATERING TO THE **CORE** SECTOR **GLOBALLY**

■ Cast Basalt



Cast Basalt Products



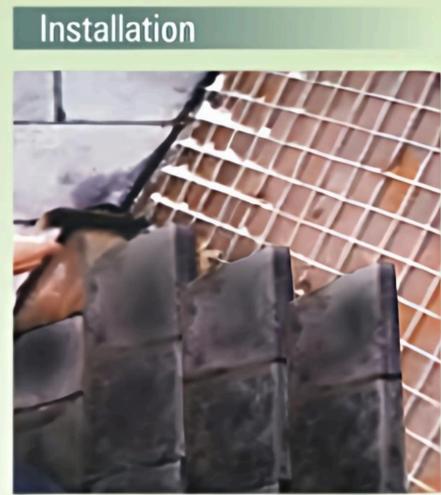
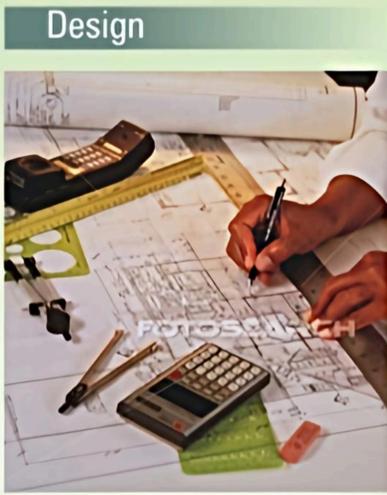
Cast Basalt Lined Pipes



Cast Basalt Lined Bends

Cast Basalt is produced by melting of naturally available basalt rock and cast into tiles and cylinders. The casting so produced is then subjected to heat treatment cycles to produce re-crystallized basalt. The resultant product is called as fused Cast Basalt which has excellent wear resistant properties against sliding and friction induced abrasion and also inherits the inertness of parent materials.

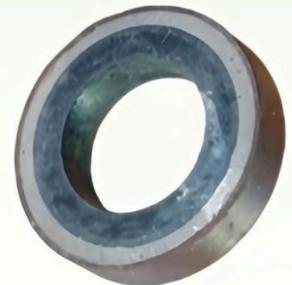
COMPLETE SOLUTION TO WEAR PROTECTION



DEMECH is the only indigenous manufacturer of Cast Basalt liners having state of the art manufacturing facilities at Pune, India.

Cast Basalt is manufactured in the form of pipe sections and tiles.

Cast Basalt Cylinders are used for lining of pipes and fittings for sizes ranging 50 NB to 500 NB. The engineered tiles and trenches are used for the lining of cyclones, launders, flumes etc



Pipe Section

Standard Product Range

Standard Sizes of Cast Basalt lined pipes and fittings

NB	CB ID	MS OD	FLG OD	PCD	NO OF HOLES	FLG THK
50	53	139.7	245	205	8	18
80	78	168.3	275	232	8	18
100	103	193.7	290	255	8	18
125	128	193.7	325	280	8	18
150	153	219.1	335	300	8	18
175	178	248/273	380	335	8	18
200	203	273	395	355	8	18
225	228	298/323.9	425	380	12	18
250	253	323.9	445	405	12	18
300	287	355.6	480	435	12	18
300	303	373	500	455	12	18
350	336	406.4	540	490	12	18
350	356	426	560	520	12	18
400	386	457.2	590	540	12	18
400	406	476	620	560	12	18
450	436	508	640	585	16	18
500	489	571	685	635	16	18

Cast Basalt Cylinders



Cast Basalt Tiles



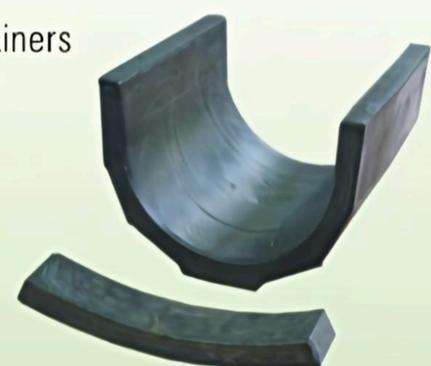
Standard Sizes of Cast Basalt Tiles

Length (mm)	Width (mm)	Thickness (mm)	Type
200	200	30 / 40	Back Serrated
250	180	30 / 40	Back Serrated
200	200	30	Boltable
180	115	23	Back Serrated
180	115	18	Plain
230A/C	200 A/F	30	Hexagonal-Back Serrated

Cast Basalt Flume/Trench Liners

Radius (mm)	Angle (Deg)	Thickness (mm)
R - 100 to R - 300	120	30
R - 300 to R - 450	60	30/40
R - 450 to R - 700	45-60	30/40/50

Cast Basalt Trench Liners



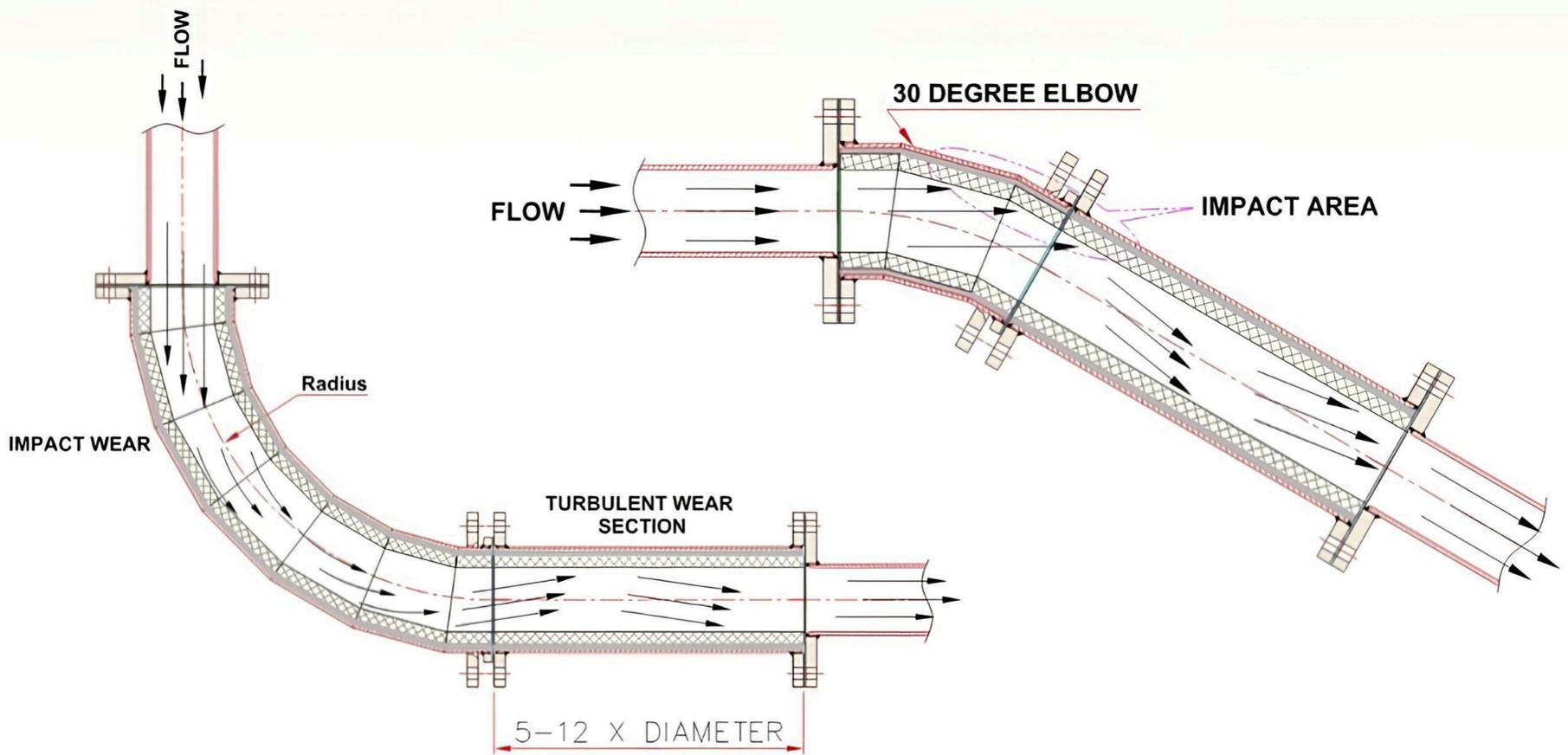
Technical Specifications

Specification	Unit	Value
Compressive Strength	Kg/sq.cm	4500 (min)
Density	gm/cc.	2.9 to 3.1
Hardness	Moh's Scale	8 as compared to 10 of Diamond
Wear Resistance	mm (Material Loss)	0.7 (max)



Design Aspects

1. The bend radius should be minimum 3 times of the nominal bore.
2. At discharge end of each bend, cast basalt lined straight pipe of length 5 to 12 times the nominal bore must be used.



Types of end connections



Plain End



Rotating Flange

Cast Basalt lined pipes and fittings can be supplied with different end connections as per the design requirement to suit the site conditions and easy installation.



Spool Pipe



Fixed Flange



Weldable Sleeve

Applications

Cast Basalt is being successfully used as a finest wear and abrasion resistant material in many applications in Cement, Power, Washeries and Steel sector. Cast Basalt is recognized as an outstanding solution for wear problems.



Power Plants

- Ash Slurry Disposal Pipes & Bends
- Pneumatic Ash Conveying Pipes and Bends
- Ash Sump
- FA Trench Liners
- Coal Bunker
- Drag Chain Conveyor



Steel Plants

- Slag Granulation Pipes and Launder
- Air Lift Pipes
- Coke House Bins
- Iron Ore House Bins
- Scale Flume Liners in HSM, Wire & Rod Mill, SMS, Castor area.



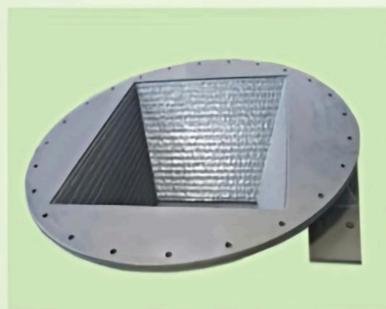
Cement Plants

- Coal conveying – C line and K line – pipes and bends.
- Ash and Cement conveying pipes & bends
- Separator and Cyclone Lining

Our Other Wear Resistant Products



High Alumina Ceramic



CHROMAX Wear Plates



Ceracoat



Superesist



Chromcast



Spiral Welded Pipes



Wearwell Compound

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