

DURZALT 40

Fused cast basalt



DURZALT® 40 is a fused cast basalt of very high quality, offering very good wear resistant performance. Its method of production allows the fabrication of wear-resistant linings for any required shape obtained by casting.

DURZALT® 40 resists very well to sliding abrasions produced by very aggressive fine particles moving at high speeds, or by larger elements with low impact. It offers wear resistant equipment protection unequalled by metals and outstanding economic efficiency.



DURZALT® 40 is obtained by the controlled fusion of natural basalt from selected lava flows. Crushed to the required size, it is melted down at temperatures nearing 1250°C.

DURZALT® 40 is then poured in sand or metal moulds to obtain the requested shapes.

The colour of the **DURZALT® 40** goes from reddish-brown to shiny black depending upon the type of mould used.

DURZALT® 40 preserves its properties when reaching high temperatures (300°C), is unaffected by atmospheric agents and offers a very good chemical inertia to bases and acids (except for hydrofluoric acid).



The shape of the **DURZALT® 40** linings depends on the structure to be protected: curved or flat tiles, straight pipes, elbows, cones or nozzles.

Assembling, by appropriate systems, the different Durhart elements in the metal shell, we get dressed sets whose internal geometry is «perfect», ie without facets.

AREAS OF USE

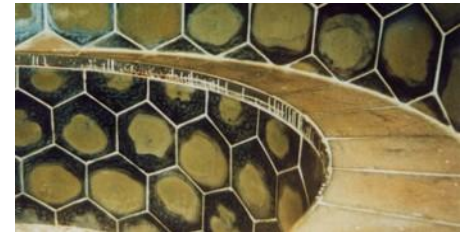
DURZALT 40® is particularly recommended to treat severe abrasion areas with moderate impact where an excellent sliding coefficient allows an improved product flow:

- Hoppers
- Chutes
- Chain conveyors
- Hydraulic or pneumatic pipe conveyors
- Cyclones
- Hydro cyclones
- Separator Cones
- Wall linings
- Industrial Flooring
- ...



PRODUCTION SCHEDULE

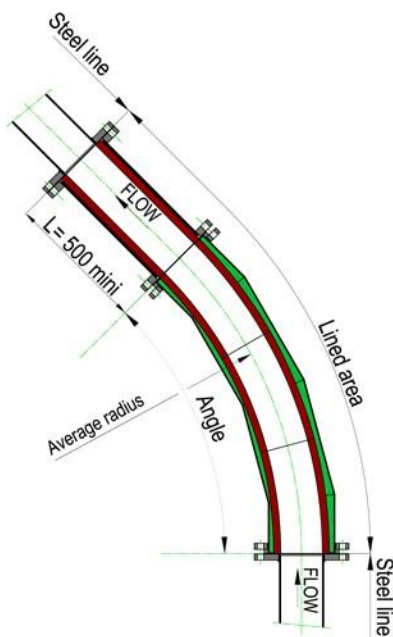
- Standard pipe elements
- Standard tiles
- Custom-made parts



Thickness (mm)	Shape	Dimensions (mm)
30 to 50	Tiles to bond or embed	200 x 150 to 250 x 250
18 to 25	Straight Pipes	Min. I.D. - 50
25	Elbows	Min. I.D. - 50

NB : consult us concerning any other specific request for special shapes or custom dimensions.

CROSSCUT DURZALT® 40



Typical cross section

MECHANICAL CHARACTERISTICS

Density	3.0
Mohs Hardness (diamond reference of 10)	8
Abrasion resistance in adapted cases	6 to 7 times higher than steel



METHODS OF BONDING

After adjusting and blocking into the right position, the final bonding of each **DURZALT® 40**, component can be carried out through the use of a suitable mortar adapted to the operating conditions of the equipment (temperature or chemical aggressiveness).



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