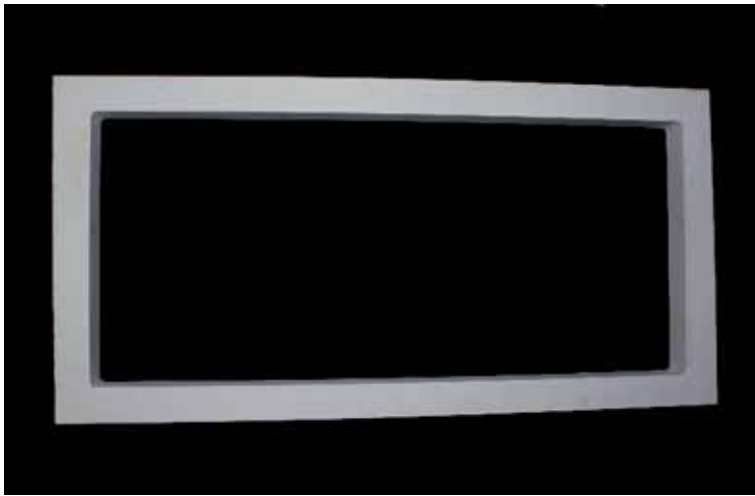


SLAB CASTING

Consumables - SKIM DAMS



Description:

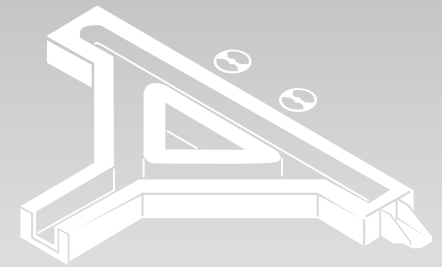
RODABELL's skim dams have been specifically developed to prevent aluminum oxide inclusions.

RODABELL is currently offering 2 main lines for this particular product:

- Machined from calcium silicate boards
- Precast shapes from fused silica

Our precast skim dams from fused silica are manufactured using PERMATECH'S technology from its proprietary material SIGMA series. Precast skim dams are denser than calcium silicate products which makes them more suitable for applications where the dam can sit lower. By lowering the dam, we provide a more efficient collection of the skim.

RODABELL's engineering department is able to develop detailed drawings for any spout that we do not have in our product range.



Application:

Skim dam for traditional or Steady Eddy slab casting processes.

Advantages:

- Great mechanical resistance that provides an extended lifetime
- High thermal shock resistance
- Provides an excellent slab surface finishing
- Eliminate out gassing
- Easy to clean between castings

Sigma Series Composition

Description	%
Fused silica	75-90
Modifier	5-15
Calcium Aluminate	5-10
Amorphous silica	3-10
Crystalline silica (cristobalite)	<0.7

Mechanical properties

	Units	MR-MO	MR-N14
Bulk density	kg/m ³	850	848
Flexural strength	MPa	8	8.8
Compression strength	MPa	15	17
Hardness	Mpa	60	60

Thermal properties

	Units	MR-MO	MR-N14
Service temperature	°C	850	850
Thermal conductivity	W/mK	0,26 (750°)	0,201 (700°)
Loss on ignition	%	3,1	8
Shrinkage	%	0,1/0,4	0,25/1,10
Coef. Thermal expansion	K ⁻¹	6,1*10 ⁻⁶ /K	7*10 ⁻⁶ /°C