

High Density Radiation Shielding Window Glass for Nuclear Hot Cell Application

IPR STATUS

Trade Secret

APPLICATION/USES

Nuclear Hot cell, X-ray room, Operation theatre, Radiation therapy room

SALIENT FEATURES

- Involves cullet making in 310 lit refractory pot, final melting in 40 lit platinum pot, casting through bottom pouring technique (cast block size is 425 x 425 x 130mm³), annealing and final processing.
- Windows of dimensions 550 x

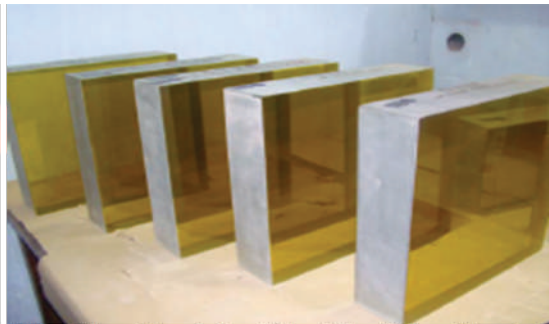
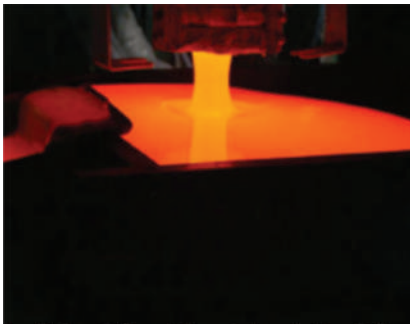
550 x 50 mm and 700 x 700 x 35mm from the same melt size through slumping technique in order to increase the viewing area has been developed

LEVEL/SCALE OF DEVELOPMENT

- Pilot scale facility established. Technology for producing homogeneous and defect free high density RSW glass blocks up to 400 x 400 x 100 mm³ sizes successfully demonstrated.

LINE MINISTRY MAPPING/USER SECTOR

Department of Atomic Energy



Bottom-Pouring-Flow-Casting and Radiation Shielding Window (RSW) Glass blocks

