



A Subsidiary of PETRONAS Chemicals Group

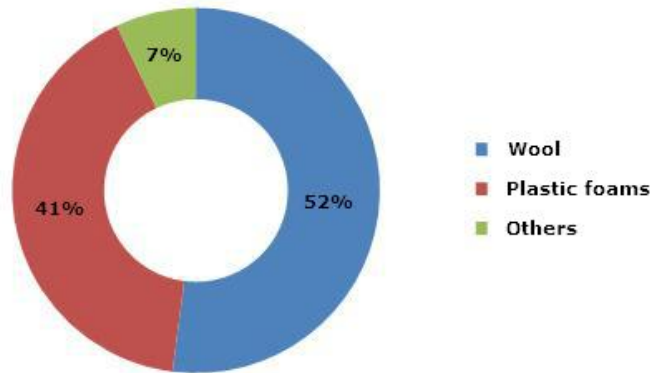
Insulation

© 2021 BRB International B.V.

All rights reserved. No part of this document may be reproduced in any form possible, stored in a retrieval system, transmitted and/or disseminated in any form or by any means (digital, mechanical, hard copy, recording or otherwise) without the permission of the copyright owner.

What is insulation?

Material to prevent spread of heat, sound, electrical energy



Basic Material

Stonewool

Glasswool

Perlite

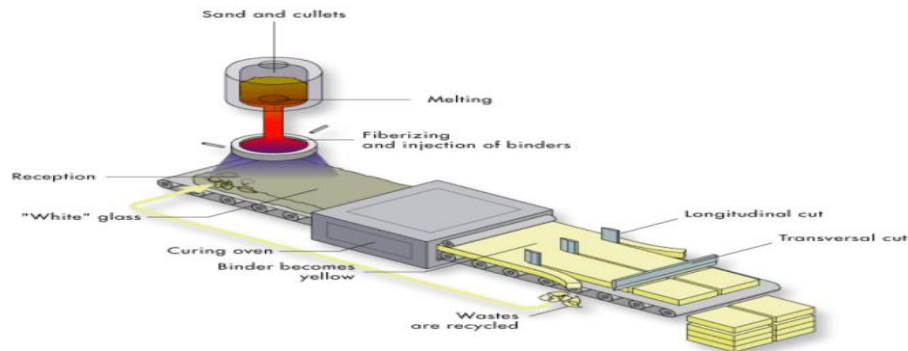
Vermiculite

Ca silicate

Natural fibre

Insulation fibre manufacture

- Glass or stone feedstock melted via furnace route
- Melt' extruded through spinners to make fibres
- Organic binder is sprayed to develop bonded fibres
- Binder contains:
 - BRB Sempure: Emulsion water repellent
 - BRB Silanil®: Silane adhesion promotor
 - Adhesive resin, reactants, catalysts & water



Types of insulation



- Bonded fibre slabs



- Bonded rolls

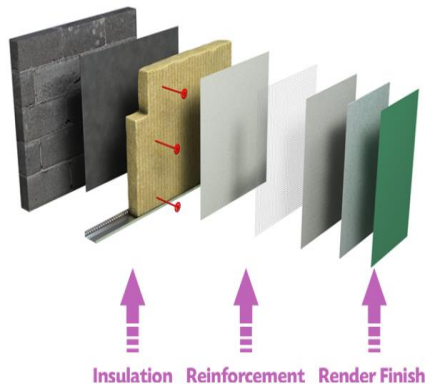


- Unbonded loose fill

BRB products for bonded glass and stone slabs



External Wall Insulation - Key Components



- Silane adhesion promotor
 - BRB Silanil® 176
 - BRB Silanil® 919
 - BRB Silanil® 581
- Water repellency
 - PF/ low formaldehyde binder:
 - BRB Sempure SW4
 - BRB Sempure 1814
 - Carbohydrate binder:-
 - BRB Sempure HJS
- Hot-end conveyor release
 - BRB Sempure 60
- Wash-water defoamer
 - BRB Akasil® TG10

BRB products for bonded glass rolls



- Silane adhesion promotor
 - BRB Silanil® 176
 - BRB Silanil® 919
 - BRB Silanil® 581
- Water repellency / Roll recovery
 - PF/ low formaldehyde binder:-
 - BRB Sempure SW4
 - BRB Sempure 1814
 - Carbohydrate binder:-
 - BRB Sempure HJS
- Hot-end conveyor release
 - BRB Sempure 60
- Wash-water defoamer
 - BRB Akasil® TG10

BRB products for glass-fibre loose-fill



- Water repellency
 - BRB Sempure HY43
 - BRB Sempure 379
 - BRB SN150
- Hot-end conveyor release
 - BRB Sempure 60
- Wash-water defoamer
 - BRB Akasil® TG10





BRB
Passionate about Progress