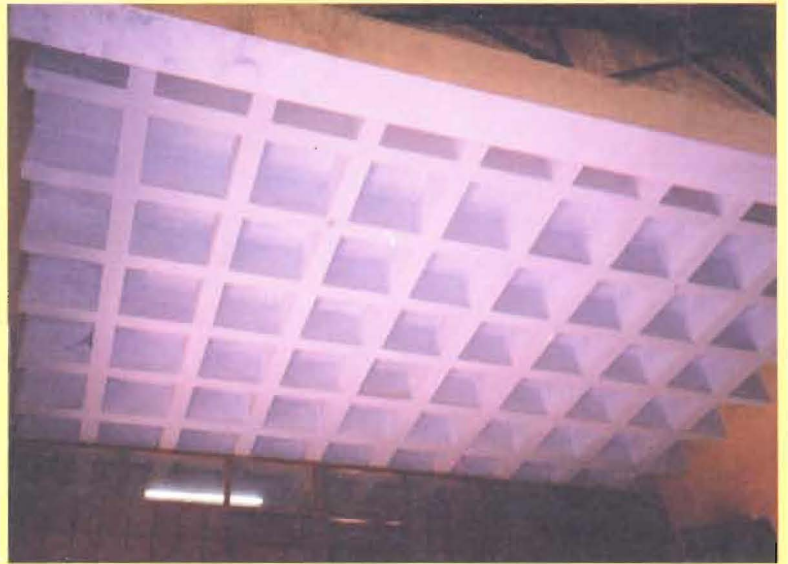




Central Building Research Institute

Roorkee

Precast R. C. Waffle Unit Floor/Roof



- Application/uses:** Suitable for two-way spanning floors/roofs of halls, auditorium etc. having large spans.
- Salient Technical Features:** Waffle unit floors/roofs are structurally efficient and are ideal for spans 9 m. or above. Need partial shuttering for supporting the precast units during the construction. Precast units are laid in a grid pattern and concrete is poured in the joints between them after fixing required reinforcement in the joints to complete the construction of floor/roof.
- Environmental Aspect:** No adverse effects on environment.
- Level/Scale of :
Development** Commercial scale.
- Status of :
Commercialisation** Technology is being released free. Used in the construction of large number buildings all over the country.
- Major Components/ :
Raw Materials** Cement, aggregates and reinforcing steel.
- Major Plant Equipment :
and Machinery** Timber/steel moulds and light hoisting equipment.
- Techno-Economics :** Results in saving of 16% in cement, 16% in aggregates, 12.5% in reinforcement, besides saving in form work.
- Technology Package:** Details are given in Data Sheet No.6 (BuildingTechnique Series).

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