

Title (en)
PRECAST CONCRETE BUILDING UNITS

Title (de)
BETONFERTIGBAUEINHEITEN

Title (fr)
UNITÉS DE CONSTRUCTION EN BÉTON PRÉFABRIQUÉES

Publication
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Application
EP 06776020 A 20060824

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Abstract (en)
[origin: WO2008019699A1] This hybrid pre-cast / cast insitu panels invention consists of three, stepped down slabs with protruding steel bars (1) to connect to a central cast insitu sections that allow steel to run not only between the sandwiching panels but also at right angles throughout length of room past the supports and on to the adjacent bays on either side thereby distributing the generated moments to all four room supports and even beyond to the adjacent bays on all sides due to the stiff formed monolithic slab, concurrently shear is reduced by distributing it to not two but all four sides. Walls and column moments are reduced due to their flexible connection to the slabs and due to their running continuously from footings to the roof. Thus this invention widens the scope of applications of structural pre-cast concrete with thinner slabs carrying more loads over longer spans, thinner walls and columns making even the foundations lighter; ideal for high rises and large spaces such as malls and garages that have high stresses using relatively small standard pre-cast off the shelf panels to create large structures.

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