

Title (en)

PANEL OF COMPOUND SHEETS FOR THE CONSTRUCTION OF LIGHT-WEIGHT ONE-WAY JOIST SLABS

Title (de)

PLATTE AUS VERBUNDSCHICHTEN FÜR DIE HERSTELLUNG VON LEICHTGEWICHTIGEN UNIDIREKTIONALEN BALKENPLATTEN

Title (fr)

PANNEAU DE PLAQUES COMPOSÉES POUR LA CONSTRUCTION DE DALLES D'ÉTAGES INTERMÉDIAIRES ALLÉGÉES UNIDIRECTIONNELLES

Publication

EP 3498931 A1 20190619 (EN)

Application

EP 17798830 A 20170324

Priority

- CO 16128043 U 20160516
- IB 2017051709 W 20170324

Abstract (en)

The invention relates to a prefabricated panel (5) for light-weight one-way joist slabs of the compound section type, comprising an upper contributing layer (51), a lower contributing layer (52) having a series of upper peaks (521) and troughs (522) and shear transfer bolts (53) which secure the upper contributing sheet (51) to the upper peaks (521) of the lower contributing sheet (52), and shear bolts or pins (53) which secure the lower contributing layers (52) to the slab framework beam (7). The functioning of the upper (51) and lower contributing layers (52) as a compound section permits the production of a highly efficient system for supporting the requirements of bending and shear forces, having a low unitary weight in comparison to the existing systems, which involves lower loads in terms of its own weight and a reduction in the inertia effects during seismic events, while constituting a less bulky structural solution, having fewer ground requirements and being much more economical, thereby reducing the time and input, labour and equipment required for the production and assembly thereof.

IPC 8 full level

E04B 5/02 (2006.01); **E04C 2/32** (2006.01)

CPC (source: EP US)

E04B 5/02 (2013.01 - EP US); **E04B 5/04** (2013.01 - US); **E04C 2/28** (2013.01 - EP US); **E04C 2/322** (2013.01 - EP US); **E04B 2103/02** (2013.01 - US); **E04B 2103/06** (2013.01 - US); **E04C 2/38** (2013.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3498931 A1 20190619; **EP 3498931 A4 20200415**; CL 2018003206 A1 20190118; CN 109415903 A 20190301; MX 2018013036 A 20190306

DOCDB simple family (application)

EP 17798830 A 20170324; CL 2018003206 A 20181112; CN 201780030613 A 20170324; MX 2018013036 A 20170324