

ABSTRACT OF THE DISCLOSURE

PANEL FOR MAINTAINING HIGH PRESSURE STRENGTH AT ANY POINT

Disclosed herein is a high-strength panel for use as
5 flooring in a clean facility, such as a semiconductor clean
room. The high-strength panel is configured such that rim
ribs, each having a tapered surface, are formed at respective
rim portions of the panel. A main reinforcing rib as a
partition is provided to divide an interior space defined by
10 the rim portions into a plurality of square lattice sections,
and, in turn, a plurality of auxiliary reinforcing ribs is
arranged in a respective one of the lattice sections to divide
the lattice section into 4 rows and 4 columns, i.e. into
sixteen sub-sections. Also, a plurality of circular recesses
15 is diagonally arranged at a bottom layer of each sub-section
defined by the auxiliary reinforcing ribs. The circular
recesses are surrounded by circular ribs, respectively. With
this configuration, it is possible to provide the entirety of
the panel with an enhanced supporting force resistant to
20 vertical load and eccentric load, thereby effectively
increasing the strength of the panel resistant to a
concentrated load while preventing the downwardly applied load
from being concentrated at a specific location of the panel by
distributing the load throughout the panel.