

ABSTRACT

The present application discloses a unit panel and system for sound barrier. The unit panel for sound barrier includes a front panel, a back panel, a profile frame, a sound-absorption assembly and a rubber assembly; wherein the profile frame is formed by separated crossbeams and a plurality of longitudinal beams arranged between the crossbeams; the crossbeam is provided with opposite clamping slots to clamp the front panel and the back panel, forming a shell of the unit panel with the front panel and the back panel disposing on opposite sides of the profile frame; the rubber assembly comprises a first rubber strip provided between the front panel and each of the crossbeams, and between the back panel and each of the crossbeams; and a second rubber strip provided in a socketing slot of the crossbeam; and the sound-absorption assembly is inserted between adjacent longitudinal beams. The unit panel of this application reduces a pulsating peak load of a train, thus, improving sound absorption, structural safety and weather resistance, and extending anti-fatigue life.

(Fig. 1)