

Flat wagon with energy-absorbing components for transportation of long cargoes, the design of which consists of a cab module containing two two-axle bogies, a coupler module, a braking equipment module, a frame module with a spine beam, pivot beams, main longitudinal beams, intermediate longitudinal beams, intermediate cross beams, and braces; scaffolding brackets are mounted on the main longitudinal beams of the frame. In addition to this, frame walls consisting of vertical uprights and horizontal beams, are inserted into scaffolding brackets. The vertical uprights and horizontal beams are made of closed-section profiles and filled with energy-absorbing material; the lower sections of the vertical uprights are fitted with a skirt that secures the walls in the scaffolding brackets; the upper sections of the vertical uprights on the left and right walls are connected by chains. The pivot beams of the flatcar frame are equipped with chain ties fastening nodes and node placement areas for chain ties fastening on the pivot beams reinforced with diaphragms from the inside.