

AIR BLAST LOADING OF WALL PANELS

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Different types of wall panels, frequently used in Swedish dwelling houses, such as walls of reinforced concrete, brick masonry, light weight concrete, sandwich constructions and walls with wooden bars have been laterally loaded with static and dynamic pressure. One way action elements in a full storey high testbench have been used. Pressure load, deflection, support reaction and mechanism of fracture have been registered. A comparison of the test results for deflection with results from a single degree of freedom analysis indicates an increase of resistance at high velocities of deflection. Different amplification factors for the static resistance function have been evaluated and used in calculation of iso-damage curves for the walls tested.