TALLINN UNIVERSITY OF TECHNOLOGY TESTING LABORATORY Laboratory of the Institute of Mechanical Engineering

(Estonian Standards Board certificate No. 044)

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Your: 25.02.2000 Our: 24.03.2000 No. 2000-12

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Determining the strength of mounting parts of window structures made of plastic and aluminum

The mounting parts made of plastic and aluminum presented by you on 25 February 2000 were strength-tested in the Strength-testing laboratory of the Institute of Mechanical Engineering of Tallinn University of Technology. The parts included: metal anchors 217.407, 208.258; plastic supports for insulated glass units (five different sizes); window and construction inlays. The tests were performed on test machines EU-100 and P-5.

Placing a load on the insulated glass units supports with uniformly distributed load allowed to determine the area of proportional deformation caused by such a load. During placing a load on the metal anchors the load has been gradually increased until the support elements were deformed. The window inlays were loaded perpendicularly in relation to the support surface. During placing a flat load on the construction inlays the load was transmitted to the half of the inlay length.

Test results are presented in the attached protocols.

Lembit Ruta Laboratory director

Annex: Test protocol No. 2000-12 on eleven pages.

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This protocol may be copied only in its entirety