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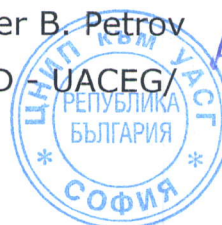
**DOCUMENT TYPE: REPORT ON TESTING OF SUBCONSTRUCTION
FOR VENTILATED TYPE FACADE SYSTEMS
PRODUCED BY ETEM BUILDING SYSTEMS**

CLIENT: STILMET AD

DATE: 11.09.2008

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Theoretically calculated normal stress at this load case is:

Bearing capacity check - load combination [P1÷P5=20 kg, W1÷W6=160 kg]
 $\sigma_{\max} = N/A + M_x/W_{nt,x} \leq \gamma_c R_{p0.2}$
N = 1.0 kN M_x = 21.50 kN*cm
 $\sigma_{\max} = 1.0/3.36 + 21.50/4.03 = 0.298 + 5.335 = 5.6 \leq \gamma_c R_{p0.2} = 1 * 17.0 = 17.0 \text{ kN/cm}^2$

The contribution of the normal force (N) in calculation of the normal stress is insignificant.

There is a significant reserve in load bearing capacity when the model is loaded with P1÷P5=20 kg, W1÷W6=160 kg.

8. CONCLUSIONS

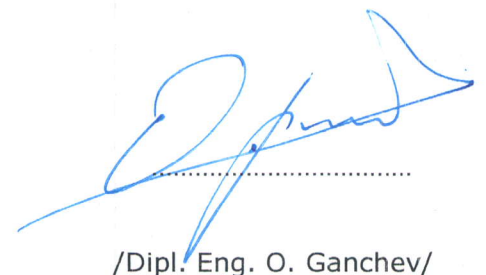
The performed tests for the 3 models of subconstruction for ventilated type facade system allowed to make the following conclusions:

- The models have load bearing capacity for mentioned above load cases;
- Theoretically calculated normal stresses for mentioned above load cases are significantly lower than yield point $R_{p0.2} = 17 \text{ kN/cm}^2$ for alloy AW-6063 T6;
- After unloading the models the remaining deformations have insignificant values. No plastic deformations are developed in T and L profiles;
- No visible deformations or damages are observed after the tests;
- Load bearing capacity is proved for the load cases mentioned in the Technical specification.

All of the data (figures, tables, texts and photos) are recorded on a CD, which is an undivided part of this document.

Sofia, 11.09.2008

Head of SSRL - UACEG:



/Dipl. Eng. O. Ganchev/