

Client:	Bettazza Graniti SA, Cevio		
Work:	Certificazione di pietre naturali		
Date:	08.06.05	Mandate:	04-4389

STATIC ELASTIC MODULUS

Standard: prEN 14580

Tested samples:

Description: Biotitic paragneiss
Location: Quarry Boschetto, Bettazza Graniti SA, CH - 6675 Cevio
Dimensions: Cores $\varnothing = 50$ mm, H = 100 mm
Sampled by: Client
Date of delivery: 22.02.05
Date of testing: 06.06.05
Technician: Tec. M. Somazzi

Preservation: In laboratory at room conditions
Loading orientation: Parallel to the schistosity
Loading velocity: 0.5 MPa/s
Measuring interval: Third loading phase

Name	PL-1	PL-2	PL-3	PL-4	PL-5	PL-6
Diameter [mm]	50.0	49.9	49.4	49.9	49.4	49.6
Height [mm]	101.9	100.2	101.8	101.7	101.8	101.9
Mass [g]	539.7	535.4	531.2	537.1	525.3	536.5
App. density [kg/dm ³]	2.703	2.732	2.722	2.700	2.692	2.725
S_{superior} [N/mm ²]	52.5	53.6	54.8	53.7	54.8	54.3
$\epsilon_{\text{superior}}$ [‰]	1301	1352	1291	1563	1585	1542
S_{inferior} [N/mm ²]	3.2	3.2	3.3	3.2	3.3	3.3
$\epsilon_{\text{inferior}}$ [‰]	212	162	265	327	328	325
El. mod. [kN/mm²]	45.2	42.4	50.3	40.8	40.9	42.0
Average	43.6 ± 3.6 kN/mm²					

Remarks:

Checked and approved by: Dr. M. Di Tommaso


