

Software for Building Materials Testing

PROTEUS

Prüfmaschinen Testing Machines
w+b walter+bai ag
 Industriestrasse 4, CH - 8224 Löhningen
Schweiz Switzerland
 Tel. +41 (0)52 687 25 25 www.walterbai.com
 Fax +41 (0)52 687 25 20 info@walterbai.com

Sample: 1
 Compression dynamic test / EN 12697-25:2005 / Cylinder / 10x100

Designation	1	2	3	
Diameter	mm	10	10	10
Height	mm	10	10	10
Weight	g	500	50	50
Density	kg/m³	63620	63662	63662
Test temperature	°C	25.0		
Max. Force	kN	4.02		
Strain 0	mm	0.14		
Strain n	mm	6.04		
Strain total	%	59.803		
Cycles total		604		
Cycle number by 4%				
Creep rate	µm/h	9.775		
Creep number	MPa	0.9		

Evaluation: Sample: 1
 Evaluation of the actual element.

Graphic: **Channel 1** Active curve: **Force 63 kN** Show details

Current parameters:
 from cycle: 10
 to cycle: 400
 Update

Channel peak values:
 Force 63 kN min: 0.064 [kN]
 Force 63 kN max: 4.029 [kN]
 Deform 1 A min: 0.3671 [mm]
 Deform 1 A max: 8.3632 [mm]

Labels on the graph: Rm, Rp3, Rp1, Rb, elo, elu, nD1, nD3.

Building Materials Testing Software

We offer flexible and powerful building materials testing software. Available are different software packages in accordance with the relevant international standards.

The packages offers fully automatic control of the test procedure and data collection of results including analysis and reporting.

Control and evaluation has never been as user-friendly as it is now when using these application packages.

These packages offers you both, rapid and productive testing but also specialized applications for advanced testing requirements.



CONTENT SECTION K

Description	Page
PROTEUS	Building Materials
Overview	246
Basis Module	248
Cement	249
Concrete	250
Fibre Reinforced Concrete	252
E-Modulus	254
Pipe	256
Masonry, Brick	257
Gully Top	258
Creep	259
Asphalt and Bituminous	260
Rock	262
Wood and Timber	264
DION7	Free Programmable
Overview	DION 7 266
Free Programmable Testing	DION FPI 267
Dynamic Fatigue and Static Testing	DION EASY 268

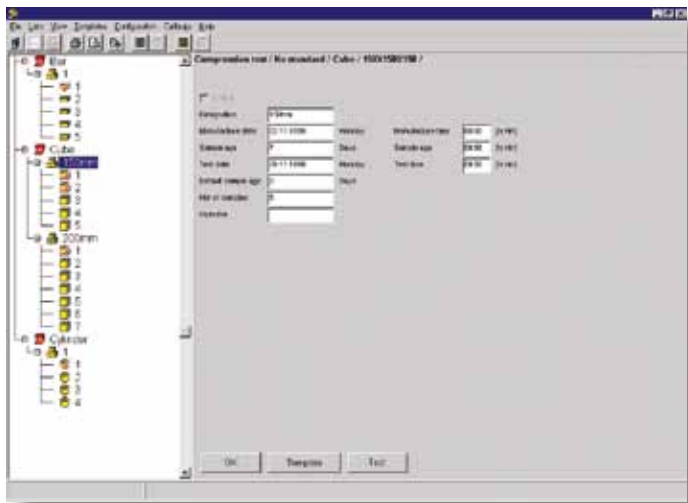
A
B
C
D
E
F
G
H
I
J
K
L
M

Testing Software for Building Materials PROTEUS

PROTEUS offers many advantages in the field of building materials testing. Test control, data collection and evaluation and reporting capabilities have never been as user-friendly. PROTEUS offers both, rapid and productive testing but also specialised applications for advanced testing.

Features

- The high degree of flexibility brought by template generation and by the test editor allows configuring the program according to the exact specifications needed.
- PROTEUS is not only used in cement and ready-mix plants, building material test laboratories, but also for R&D in technical universities.
- Standard test types according to current standards, can be expanded in a modular way.
Option: test editor, to define custom-specific test sequences
- Supports all widely used sample bodies with no dimensional limitations.
- Standard tests and special tests defined and stored as test templates. (Parameters set automatically according to the Standard used.)
- Custom test templates can be scaled according to the number of measurements, of decimal places, etc.
- Keying in an order and testing as separate activities.
- Mixed tests within a single test order (e.g. Elasticity Modulus and Pressure Test, etc.)
- Log output (including charts) according to type of test and of sample.
Option: form designer for custom adaptation of log.
- Structured Database (BDE) with additional custom data that can be defined at every level (Order-Series-Sample), Object-Oriented, Modular and Network-Ready
- Data export in ASCII-format.
Option: additional processing in external software such as your Laboratory Information Management System.
- Supports measuring devices such as measuring station, scales and slide gauges.
- Password protection for sensitive functions (H/W configuration, templates, etc.)



Templates Make Testing Fast and Easy

Test templates contain all parameters needed for testing, such as Type of Sample, Type of Test, Test Standard, Quality Control, Graphical Representation and more. Several tests within a single order performed by assigning a test template to the series. Custom-made additional test templates can be defined in addition to the standard ones.

Simple to Operate

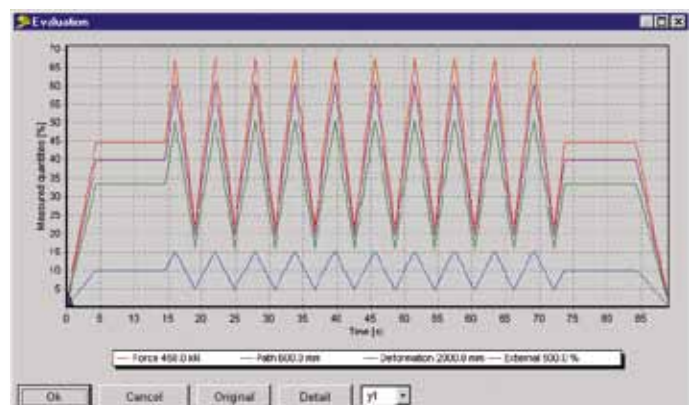
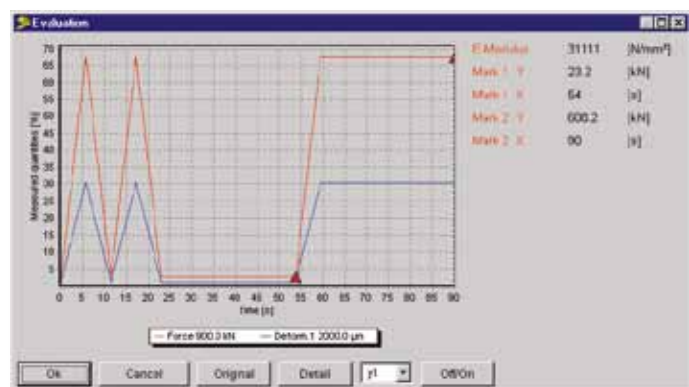
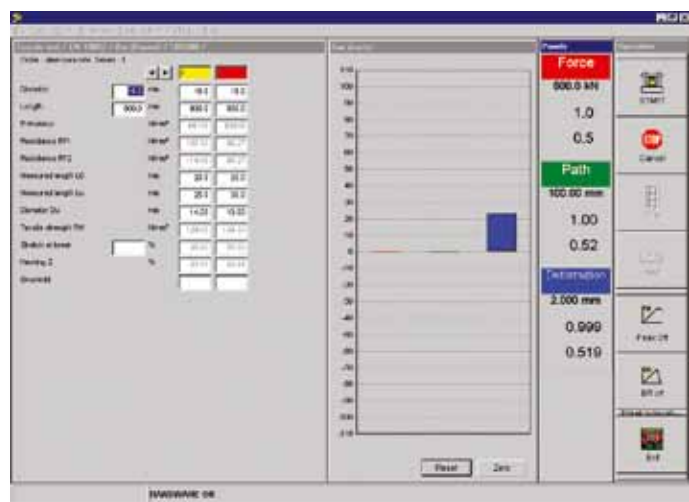
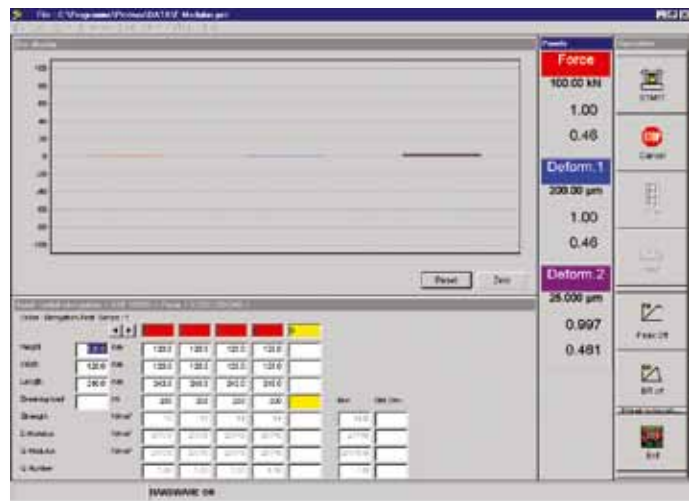
- All program functions can be selected with the mouse. The main functions may also be called with a combination of keys. Powerful object-specific functions called directly with the right mouse button to speed up operations: Copy, Paste, Clear
- Test classification in a relational database
- Database Structure: Databases can be structured according to any suitable folder hierarchy. Thus, tests can be sorted according to individual criteria, e.g. according to customers or suppliers, materials, type of test, time scales, test bodies. Each database contains any number of orders and series. A series contains at most 99 samples. Example: An order contains 3 series (Age 2, 7 and 28 days), each one with 3 samples.
- Data Export for Additional Processing: The data export function provides an interface with other external programs and stores the data in standard ASCII format. Option: Customer-specific ASCII formats.
- Logging: All series in an order can be printed out. The type of form is correctly handled by the Logging Manager, based on the test template. Option: Form Designer for custom-specific adaptation of forms.

Standard Sample Bodies

Depending on the type of test and the standard, the following approved sample bodies are available:

- Cubes:
10, 15, 20 cm, 4, 6 inch
- Cylinders:
10 x 20, 12 x 36, 15 x 15, 15 x 30, 16 x 32, 20 x 20, 20 x 40 cm
- Drilling Cores:
50 x 50, 50 x 100, 80 x 80, 80 x 160 mm
- Prisms:
40 x 40 x 160 mm
- Bars:
10 x 15 x 70, 12 x 12 x 36, 15 x 15 x 70, 20 x 20 x 90 cm
- Plates:
60 x 60 x 10 cm

Dimensions to be selected without limitations.



以上内容仅为本文档的试下载部分，为可阅读页数的一半内容。如要下载或阅读全文，请访问：<https://d.book118.com/778057037105007036>