

Rheology Solutions

Rheology Solutions is the sole Australian distributor of this product range and we welcome the opportunity of discussing your application requirements.

We hope the information you are seeking is contained within this file. If you have any questions, or require further information please contact us. We look forward to being of further service.

Regards from the Team at Rheology Solutions.

RHEOLOGY SOLUTIONS PTY LTD. ACN 082 479 632

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CDF-/CIF Testing in Practice the first one with Internet-access



Durability is, alongside the strength, one of the most important properties of concrete. It depends on the type of building and the environmental conditions. it is especially in road construction that a high resistance to freeze-thaw cycles is of major importance and is thus one of the major criteria in testing.

The CDF-/CIF test set-up enables the freeze-thaw test to be carried out in accordance with CDF recommendations from RILEM. The advantage of this test method is in the very good reproducibility of the results that are given. With this test procedure, the weathered quantity of a surface is measured by a number of freeze-thaw cycles. The test specimens are thereby placed in a solution of sodium chloride to stress the surface. The result gives an estimate for the resistance to freeze-thaw cycling for the concrete being tested.

High Tech - Made in Germany



Schleibinger Geräte Teubert u. GreimD-84428 BuchbachGmbHGermanyGewerbestraße 4,Tel. +49 8086 94010

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Test Procedure

Preparatory work begins after the seventh day following specimen manufactureing. The test specimens are stored in a climatic chamber at a temperature of +20 °C (+/- 2 °C and a relative humidity of 65 %) 5 %. The side faces of the test specimens are sealed five days before the end of dry storage using aluminium foil and butyl adhesive.

Capillary suction starts after the 28th day for seven days, hereby the increase in weight by the test specimens is measured after 2, 3, 4 and 7 days. Capillary suction is then followed by freeze-thaw- cycling in the CDF machine. The scaling and the inner damage is measured after 4, 14 and 28 days.

Also prepared for the following standards :

- CDF RILEM TC 117 FDC
- CIF RILEM TC 176 IDC
- Cube Test
- DIN 4226
- DIN 52104
- ASTM C666-96
- prEN-12390-9

Technical Data

test cab dimensions	(wxl) 171 x 55 cm for 10 container GN-B 1/2½
temperature range	-25°C to 40 °C
max. temp. deviation	Better then 0.5 K
dimensions	lxwxh 220x80x120 cm
required room	(lxw) 350x160 cm
power	6 kW
required fuse	3 x 32 A
weight	550 kg
environment conditions	10 – 25 °C, max. humidy 60 %
Order No:	C0001

Prices

Please ask for a quotation

Combination of air and watercooling

The system regires cooling water if the temperature of the room is over 25 °C

C0005

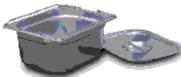
Please ask for a quotation

License Fees for CDF / CIF Test

C0011

5000,00 EUR

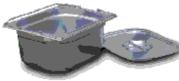
For the following countries AU, CA, CN, JP, NO, PL, RU, US, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE



Test container for the cube test, VDZ - test

Made of 2mm stainless steel 1.403 soldered. With rubber sealing, lid, closing spring, secial spacers. 15 pcs fit into the test mmachine

C0045



Test Container

made of 18/10 stainless steel. The basic container has the size of 530 x 325 mm and is called as 1/1. Fife of it fits in the cdf-test-equipment

GN-B 1/1	GN-D 1/1
GN-B 2/3	GN-D 2/3
GN-B 1/ 2	GN-D 1/ 2
GN-B 1/3	GN-D 1/3
GN-B 1/ 4	GN-D 1/ 4
GN-B 1/6	GN-D 1/6

Case Holder

to place the test container . For the basic equipment we recommend 5 pieces each

ST003, 325 mm

ST005, 530 mm



6 Channel Recorder

strip width 100 mm, 6 inputs 0-10 V, with interface cable C0029

C0027 paper strip



Spacer, 10 mm for CDF and 5 mm for CF test made of PVDF-cones, 3pcs. Needed for each specimen

C0040 (5 mm)

C5555 (10 mm)



Butyl Rubber to glue the specimens, 75 mm x 5 m C0021



Teflon Plates for 150 mm cubes C0035



Filter Container for 10 hoppers C0017

Hopper C0018



Paper Filter C19



Water Jet Pump with 1/2^{***} connector, suction device with 15 mm spacerr C30



SONOREX SUPER RK 514

Ultrasonic cleaning bath, size (LxBxT) 320x300x150 mm, HF-power 2x450 W/Periode

C0014



Pundit Ultrasonic Digital Indicating Tester

measure the transit time of ultrasonic waves, with 150 kHz transducers, cable

C0025



Pundit Ultrasonic Digital Indicating Tester Pundit+

measure the transit time of ultrasonic waves, and e-modul, with 150 kHz transducers, cable, PC interface C0050

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Ultrasonic Test Container

for ultrasonic transit time measurement with the Pundit tester-Tester made of PMMA.

C0026 for 150 mm cubes

C0027 for 100 mm cubes



Liquid coolant glykol based coolant

C0031

Holder for the temperature sensor

The sensor is pressed by a spring aginst the bottom of the specimem container. Standard since June 2000. Spare part for older systems. (included in the CDF machine, spare part)

C0056



Stainless Steel Plate for CIF-Test

C0037	max. 100 x 100 mm
C0038	max. 150 x 150 mm
C0039	max. 200 x 100 mm





Cooling Liquid Tester

Fast test of the cooling liquid

C0061