

Nine important DRRR-proficiency testings for the construction sector

Dear customers

Building materials and building products need constant quality control. The assurance of the quality requirements are carried out by the factory's own laboratories and / or officially recognized testing laboratories. The factory's own laboratories are commonly certificated according to DIN EN ISO 9001, officially recognized testing laboratories are commonly accredited according to DIN EN ISO 17025.

Both standards require the demonstration of testing competence. With taking part in proficiency testings the proof of testing competence can be demonstrated. **Proficiency testings are regarded as the most important, objective and current proof of the effectiveness of your quality system.**

There was hardly an offer of accredited proficiency testings for building materials and building products yet. Therefore the DRRR (German reference office for proficiency testing and reference materials) and the MPA Braunschweig (Civil Materials Testing Institute Braunschweig) started a cooperation with the aim to offer tailor made proficiency testings and reference materials for the construction sector. Thereby the competences of both establishments are combined in the field of the construction industry, proficiency testings and reference materials.

The DRRR-building proficiency testings are characterized by their highest quality. Only the highest quality brings you the decisive benefits. The high quality testing items are produced according to the global standards. Before starting the proficiency testing the testing items are checked by homogeneity testing with up to 10 double determinations according to the respective reference method. A permanent quality control of the materials ensures a controlled small uncertainty contribution beyond the proficiency testing rounds. Accredited statistics standard procedures make sure that the calculated parameter is as close as possible to the true value. With the accreditation of DRRR you get established safeguarded and independent evaluations which are internationally recognized.

We are pleased to offer you nine important proficiency testing rounds for the construction sector.

The following testing methods can be assured from now on with proficiency testing rounds. The proficiency testing program for the construction sector will be constantly expanded in the future. If you cannot find your needed proficiency testing please call us. We will be glad to implement your suggestions.

Products and systems for the protection and repair of concrete structures – test methods – Determination of chloride content in hardened concrete according to EN 14629

This norm describes two procedures for determination of the total of (free and bound) acid-soluble chloride in hardened concrete and hardened cement. This information is provided for the assessment of the danger of steel reinforcement corrosion by chloride. The procedure can be carried out on powder samples gained from concrete structures by drilling or from drill core samples or from fragments or from other suitable laboratory test items. Mortar prisms are made available according to EN 196-1.

Determination of chloride content of cement according to EN 196-2

The determination of chloride content of cement is implemented to DIN EN 196-2. This method produces the total of chloride and bromide and is indicated as chloride-ion. This procedure applies to standard cements and other cements and materials that are listed in the corresponding international standard.

Determination of loss of ignition of cement according to EN 196-2

The traditional determination of loss of ignition through annealing in air in oxidizing atmosphere can be applied for the determination of loss of ignition and the "observed" loss of ignition as well. In case of oxidizable substances especially sulfide or sulfurous substances the "observed" loss of ignition can be corrected to derive a "corrected" annealing loss for the summation of the oxide analyze. All mistakes due to oxidation of metallic iron, bivalent iron or bivalent manganese are normally considered to be negligible and only the corrected value is used for the correction for the extent of sulfide oxidation. The procedure is applied for both standard cements and for other cements and materials that are listed in the corresponding international standard.

Determination of mass percentage of reactive CaO of fly ash according to EN 450-1

The European standard describes the procedure of determination of free calcium oxide content of fly ash. This procedure is also applied for other cements and materials that are listed in the corresponding international standard.

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Test method of cement: Part 1: Determination of stability according to EN 196-1

This document describes the procedure for determination of compressive and flexural strength of cement mortar. This procedure is applied for both standard cements and other cements and materials that are listed in the corresponding international standard.

Determination of total content of organic carbon in limestone according to EN 13639

The European standard determines procedures for the determination of total content of organic carbon (TOC) in limestone. This standard describes the reference method and the alternative method which are viewed simultaneously. By dispute the reference method must be applied.

Determination of water absorption coefficient by partial immersion according to EN ISO 15148

The European standard describes a procedure for determination of water absorption coefficient under partial immersion without temperature gradient for a short period of time. It serves to assess the intensity of water absorption due to capillary force at persistent watering or driving rain, also in the unusual case during an unprotected storage of insulation and construction materials at the building site or during the construction phase. This procedure is suitable for the testing of plasters or coatings in conjunction that are listed in the corresponding international standard.

Determination of dynamic stiffness according to EN 29052

EN 29052-1 describes the procedure of determination of dynamic stiffness of insulating layers which are used under floating screeds. The dynamic stiffness is a parameter which determines the sound insulation by those floor structures in residential buildings.

Determination of heat transfer according to EN 12667 of insulation materials for buildings such as polystyrol (EPS, XPS)

This standard specifies the basics and test methods for determination of heat transfer of test samples in accordance with the procedure with the guarded hot plate and the guarded heat flow meter.

DRRR

The DRRR Europe is a wide leading accredited proficiency testing provider who performed more than 250 proficiency testing rounds a year. One of our focuses is on the market segments consumer products and material testing of plastic and composite materials. The competences of DRRR are among other things in the fields of quality assurance of sample materials, planning of proficiency testing, performing of proficiency testing rounds, statistics and evaluating of achievement and reporting.

Material Testing Institute for Building, Braunschweig

The MPA Braunschweig is a company of the State of Lower Saxony which serves a range of services for the economy and as instrument of technology transfer of research to application. It is recognized for examination, monitoring and certification of numerous building products and building types according to the state building regulations and notified according to EU-regulation 305/2011 as well.



Did we catch your interest?

If you have any questions or suggestions please do not hesitate to contact us.

Yours DRRR-Team

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special supplement building material



proficiency testing type	period	Please tick how you want to get the report!		prices		
		report by postal delivery	report by E-mail	report by postal delivery	report by E-mail	each additional submitted data set
chemical proficiency testing						
Determination of chloride content in hardened concrete EN 14629: 2007	November			400 €	380 €	127 €
determination of stability EN 196-1	December			870 €	850 €	283 €
Determination of chloride content of cement EN 196-2	September			315 €	295 €	98 €
Determination of loss of ignition of cement EN 196-2	October			315 €	295 €	98 €
Determination of mass percentage of reactive CaO of fly ash EN 450-1	September			470 €	450 €	150 €
Determination of total organic carbon in limestone EN 13639	October			315 €	295 €	98 €
Determinintion of heat transfer EN 12667	November			400 €	380 €	127 €
Determination of water absorption coefficient by partial immersion ISO 15148	November			515 €	495 €	165 €
physical proficiency testing						
Acoustics determination of dynamic stiffness EN 29052	October			515 €	495 €	165 €

