

Annex to declaration of accreditation (scope of accreditation)
Normative document: EN ISO/IEC 17025:2017
Registration number: **L 034**

of **Fugro NL Land B.V.**
Laboratorium voor Infra- en Geotechniek

This annex is valid from: **22-02-2023** to **01-08-2024**

Replaces annex dated: **06-07-2022**

Location(s) where activities are performed under accreditation

Head Office

Veurse Achterweg 10
2264 SG
Leidschendam
The Netherlands

Location	Abbreviation/ location code
Veurse Achterweg 12 2264 SG Leidschendam Nederland	LDM VA12
On-site	OS

No.	Material or product	Type of activity ¹	Internal reference number	Location
1	Granular Materials	Particle size distribution (sieve analysis) including percentage passing the 63 µm sieve	T.066xxFuL NEN-EN 933-1	LDM VA12
2		Flake index	T.066xxFuL NEN-EN 933-3	LDM VA12
3		Proctor density of granular sub-base material (single point proctor test)	T.012xxFuL RAW 2015 test 10, RAW 2020 test 10 and NEN-EN 13286-2. Annex B	LDM VA12 OS

This annex has been approved by the Board of the
Dutch Accreditation Council, on its behalf,

J.A.W.M. de Haas

¹ If there is a referral to a code starting with NAW, NAP, EA or IAF, this concerns a scheme mentioned on the RvA-BR010 list (<https://www.rva.nl/en/documenten/policy-rule-for-the-fields-of-activities-of-rva/>). If no date or version number is mentioned for a normative document, the accreditation concerns the most current version of the document or scheme.

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4	Granular Materials	Increase in CBR value of granular sub-base material	T.104xxFuL NEN-EN 14227-2. Annex D	LDM VA12
5		Determination of resistance against abrasion (Los Angeles test)	T.104xxFuL NEN-EN 1097-2	LDM VA12
6	Municipal Incinerator Bottom Ash (MIBA) Aggregates	Sorting test to determine metal content of Municipal Incinerator Bottom Ash (MIBA) Aggregates	T.103xxFuL RAW 2015 test 39 RAW 2020 test 39	LDM VA12
7	Granular Material / Soil	Determination of fines passing 63 µm sieve and fraction finer than 2 µm	T.066xxFuL RAW 2015 test 29 RAW 2020 test 29	LDM VA12
8		Loss on ignition, organic matter content and CaCO ₃ - content	T.102xxFuL RAW 2015 test 28 RAW 2020 test 28 NEN-EN-ISO 14688-2:2019 + NEN 8991:2020	LDM VA12
9		Plasticity – index(PI) of soil Determination of the Atterberg borders; yield point with the Casagrande and fall cone method; plasticity; plasticity index	T.065xxFuL RAW 2015 test 14 RAW 2020 test 14 NEN-EN-ISO 17892-12:2018	LDM VA12
10		Content of organic substance in soil	T.102xxFuL RAW 2015 test 36 RAW 2020 test 36 NEN-EN-ISO 14688-2:2019 + NEN 8991:2020	LDM VA12
11		Mass loss of soil when treated with hydrochloric acid	T.102xxFuL RAW 2015 test 37 RAW 2020 test 37 NEN-EN-ISO 14688-2+ NEN 8991	LDM VA12
12	Bentonite	Water absorption of bentonite	T.105xxFuL CUR Recommendation 33 test A	LDM VA12
13		Methylene blue value of bentonite	T.102xxFuL CUR Recommendation 33 test B	LDM VA12
14	Sand/bentonite (polymere)	Determination of the bentonite content of sand / bentonite (polymere) mixtures	T.102xxFuL KIWA BRL 1148, III / 1153, VI	LDM VA12

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15	Sand/bentonite (polymere)	Mix quality of sand bentonite polymere mixtures	T.102xxFuL Test E, CUR Recommendation 33, as stated in BRL 1153	LDM VA12
16	Mineral Liners	Permeability of mineral liners (constant head method)	T.106xxFuL KIWA BRL 1148, IV / 1153, VII or CUR Recommendation test G	LDM VA12
17	Bentonite	Determination of the fineness of bentonite by means of the "air jet sieve analysis"	T.066xxFuL CUR Recommendation 33	LDM VA12
18	Granular Material / Soil	Particle size distribution (sieve analysis)	T.066xxFuL RAW 2015 test 11 RAW 2020 test 11	LDM VA12
19		Particle size distribution (sieve analysis) including percentage passing the 63 µm sieve	T.066xxFuL RAW 2015 test 2 RAW 2020 test 2	LDM VA12
20		Relationship between moisture content and density of road embankment or sub-base material (proctor test)	T.012xxFuL RAW 2015 test 9 and NEN-EN 13286-2 RAW 2020 test 9 and NEN-EN 13286-2	LDM VA12 OS
21		Standard and modified C.B.R. test	T.104xxFuL RAW 2015 test 98 and NEN-EN 13286-47 RAW 2020 test 98 and NEN-EN 13286-47	LDM VA12
22		Permeability of soil Permeability (standard test)	T.106xxFuL RAW 2015 test 13 RAW 2020 test 13	LDM VA12
23		Permeability at 95% of the maximum proctor density	T.106xxFuL RAW 2015 test 95 RAW 2020 test 95	LDM VA12
24	Soils, geotechnical testing	Determination of unit weight and water content	T.050xxFuL EN-ISO 17892-1+2:2014	LDM VA12
25	Granular Material / Soil	Particle size distribution (aerometer test + sieve analysis)	T.066xxFuL RAW 2015 test 1 RAW 2020 test 1 NEN-EN-ISO 17892-4:2016	LDM VA12

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26	Soil	Classification of soil samples	T.050xxFuL NEN 5104: 1989 NEN-EN-ISO 14688-1:2019+ NEN 8991:2020	LDM VA12
27	Granular Material / Soil	Determination of specific gravity (pycnometer method)	T.105xxFuL NEN 5111: 1995 NEN-EN-ISO 17892-3:2016	LDM VA12
28		Undrained shear strength of soils by means of the torvane and pocket penetrometer	T.063xxFuL in house method NEN-EN-ISO 14688-1:2019 + NEN 8991:2020	LDM VA12
29		Determination of water content	T.101xxFuL NEN-EN-ISO 17892-1:2014	LDM VA12 OS
30		Atterberg limits; determination of liquid limit and plastic limit (Casagrande method)	T.065xxFuL ASTM D4318	LDM VA12
31		Loss on ignition	T.102xxFuL BS 1377: 1990 part 3 clause 4 (vervallen)	LDM VA12
32		Rapid Determination of Carbonate Content of Soils'	T.102xxFuL in house method	LDM VA12
33		One dimensional consolidation properties of soil	T.051xxFuL NEN-EN-ISO 17892-5 :2017	LDM VA12
34		Unconsolidated undrained triaxial test (UU)	T.074-3xx.FuL NEN-EN-ISO 17892-8:2018	LDM VA12
35		Consolidated undrained triaxial test (CU)	T.074-4xxFuL NEN-EN-ISO 17892-9:2018	LDM VA12
36		Consolidated drained triaxial test (CD)	T.074-5xxFuL NEN-EN-ISO 17892-9:2018	LDM VA12
37	Granular Material	Determination of particle density and water absorption	T.105xx.FuL NEN-EN 1097-6	LDM VA12

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In-situ tests

38	Granular Material / Soil	Determination of density of sand in-situ; Core cutter method	T.010xxFuL RAW 2015 test 3 en 6 RAW 2020 test 3 en 6	OS
39		Determination of density and degree of compaction of sand and / or granular sub-base materials in-situ; nuclear method	T.010xxFuL RAW 2015 test 3 en 8 RAW 2020 test 3 en 8	OS