

Annex to declaration of accreditation (scope of accreditation)  
Normative document: EN ISO/IEC 17025:2017  
Registration number: **L 254**

of **Stichting Technisch Centrum voor de Keramische Industrie (TCKI)**  
**Laboratorium en Meetgroep**

This annex is valid from: **06-08-2025** to **01-11-2028**

Replaces annex dated: **16-07-2025**

**Location(s) where activities are performed under accreditation**

**Head Office**

Florijnweg 6  
6883 JP  
Velp (Gelderland)  
The Netherlands

| Location  | Abbreviation/ location code |
|---|-----------------------------|
| Florijnweg 6<br>6883 JP<br>Velp (Gelderland)<br>The Netherlands | VLP                         |
| Mobile location   | MoLo                        |
| At location   | AtLo                        |

| No.                         | Material or product | Type of activity <sup>1</sup>  | Internal reference number      | Location |
|-----------------------------|---------------------|--|--------------------------------|----------|
| <b>Geometric properties</b> |                     |  |                                |          |
| 1                           | Masonry bricks      | Determination of dimensions; calliper  | ANA-KO-46<br>EN 772-16         | VLP      |
| 2                           |                     | Determination of stretcher face length and height and the camber of the stretcher face; calliper | ANA-KO-44<br>BRL 1007 Annex 2B | VLP      |
| 3                           | Clay roof tiles     | Determination of geometric properties; dimensions; calliper                                      | ANA-KO-03<br>EN 1024           | VLP      |

<sup>1</sup> If there is a referral to a code starting with NAW, NAP, EA or IAF, this concerns a scheme mentioned on the [RvA-BR010-lijst](#).  
If no date or version number is mentioned for a normative document, the accreditation concerns the most current version of the document or scheme.

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

J.A.W.M. de Haas

of **Stichting Technisch Centrum voor de Keramische Industrie (TCKI)**  
**Laboratorium en Meetgroep**

This annex is valid from: **06-08-2025** to **01-11-2028**

Replaces annex dated: **16-07-2025**

| No. | Material or product | Type of activity <sup>1</sup>   | Internal reference number         | Location |
|-----|---------------------|---|-----------------------------------|----------|
| 4   | Clay roof tiles     | Determination of geometric properties; overlap dimensions; ruler      | ANA-KO-18A, ANA-KO-18B<br>EN 1024 | VLP      |
|     |                     | Measurements in situ for test 18B                                     |                                   |          |
| 5   |                     | Determination of geometric properties; non-camber/ twist; micrometers | ANA-KO-16<br>EN 1024              | VLP      |
| 6   | Clay pavers         | Determination of dimensions; calliper                                 | ANA-KO-04<br>annex B from EN 1344 | VLP      |
| 7   |                     | Determination of curvature; calliper                                  | ANA-KO-44<br>BRL 2360, Annex I    | VLP      |
| 8   | Ceramic tiles       | Determination of dimensions; micrometer sand screw micrometer         | ANA-KO-29<br>EN-ISO 10545-2       | VLP      |

#### Mechanical provisions

|    |                                  |  |   |     |
|----|----------------------------------|--|---|-----|
| 9  | Masonry bricks                   | Determination of compressive strength; destructive test                            | ANA-KO-37<br>EN 772-1                                   | VLP |
| 10 | Clay roof tiles                  | Determination of flexural strength; destructive test                               | ANA-KO-17<br>EN 538                                     | VLP |
| 11 | Clay pavers                      | Determination of transverse breaking load and modulus of rupture; destructive test | ANA-KO-14<br>Annex D from EN 1344                       | VLP |
| 12 | Clay pavers and en ceramic tiles | Determination of abrasion resistance; abrasion resistance meter                    | ANA-KO-24<br>Annex E from EN 1344 and<br>EN-ISO 10545-6 | VLP |
| 13 | Ceramic tiles                    | Determination of resistance to surface abrasion; surface abrasion resistance meter | ANA-KO-30<br>EN-ISO 10545-7                             | VLP |
| 14 |                                  | Determination of modules of rupture and breaking strength; destructive test        | ANA-KO-32<br>EN-ISO 10545-4                             | VLP |

of **Stichting Technisch Centrum voor de Keramische Industrie (TCKI)**  
**Laboratorium en Meetgroep**

This annex is valid from: **06-08-2025** to **01-11-2028**

Replaces annex dated: **16-07-2025**

| No.                               | Material or product   | Type of activity <sup>1</sup>   | Internal reference number                                 | Location |
|-----------------------------------|---|---|---|----------|
| <b>Physical/hygric properties</b> |   |   |   |          |
| 15                                | Masonry bricks  | Determination of volume of frog or voids; sand filling method, volumetric   | ANA-KO-39, ANA-KO-46<br>EN 772-9                          | VLP      |
| 16                                | Masonry units   | Determination of net volume and percentage of voids; gravimetrically  | ANA-KO-39, ANA-KO-46<br>EN 772-3                          | VLP      |
| 17                                | Masonry units (except for natural stone)  | Determination of net and gross dry density; gravimetrically   | ANA-KO-39, ANA-KO-46<br>EN 772-13                         | VLP      |
| 18                                | Masonry bricks  | Determination of initial rate of water absorption; gravimetrically  | ANA-KO-38, ANA-KO-46<br>EN 772-11                         | VLP      |
| 19                                | Masonry bricks and clay pavers  | Determination of cold water absorption; gravimetrically   | ANA-KO-41<br>EN 772-21                                    | VLP      |
| 20                                | Clay roof tiles   | Determination of water-impermeability; permeability test  | ANA-KO-15<br>EN 539-1, method 2                           | VLP      |
| 21                                | Ceramic tiles   | Determination of water absorption, apparent porosity, apparent relative density and bulk density; gravimetrically | AKA-KO-31<br>EN-ISO 10545-3                               | VLP      |
| 22                                |   | Determination of crazing resistance; autoclave  | ANA-KO-36<br>in accordance with EN-ISO 10545-11, BRL 1010 | VLP      |
| 23                                | Buildingmaterials and raw materials / additives                                   | Determination of the expansion or shrinkage for a given temperature profile; dilatometry                          | APP-08<br>in-house method                                 | VLP      |
| 24                                | All unfired, fired and other porous materials applicable for the Ceramic Industry | Determination of the pore size distribution; mercury porosimetry  | ANA-DI-16<br>DIN 66133: 1993                              | VLP      |
| 25                                | Brick slip adhesion (test wall)   | Determining adhesion strength; tensile test after climate chamber ageing  | ANA-KO-67, ANA-KO-56<br>BRL 1330-1                        | VLP      |
| 26                                | Brick slip adhesion (test panel)  | Determination adhesion strenght; tensile test initial and after themoshock and freeze thaw ageing                 | ANA-KO-56<br>BRL 1330-1                                   | VLP      |

of **Stichting Technisch Centrum voor de Keramische Industrie (TCKI)**  
**Laboratorium en Meetgroep**

This annex is valid from: **06-08-2025** to **01-11-2028**

Replaces annex dated: **16-07-2025**

| No.   | Material or product      | Type of activity <sup>1</sup>   | Internal reference number         | Location |
|---|--------------------------|---|-----------------------------------|----------|
| <b>Determination freeze-thaw resistance</b> |                          |   |                                   |          |
| 27  | Stony Building Materials | Determination of freeze-thaw resistance; heat extraction by convection                                  | ANA-KO-19<br>NEN 2872, 1989       | VLP      |
| 28  | Masonry bricks           | Determination of freeze-thaw resistance; heat extraction by convection                                  | ANA-KO-19<br>NEN-EN 772-22        | VLP      |
| 29  | Clay roof tiles          | Determination of freeze-thaw resistance; heat extraction by convection                                  | ANA-KO-19<br>EN 539-2             | VLP      |
| 30  | Clay pavers              | Determination of freeze-thaw resistance; heat extraction by convection                                  | ANA-KO-19<br>Annex C from EN 1344 | VLP      |
| 31  | Ceramic tiles            | Determination of freeze-thaw resistance; heat extraction by convection                                  | ANA-KO-19<br>EN-ISO 10545-12      | VLP      |
| <b>Chemical-physical research</b>           |                          |   |                                   |          |
| 32  | Masonry bricks           | Determination of brick-efflorescence; visual inspection   | ANA-KO-48<br>NBN B 24-209         | VLP      |
| 33  | Ceramic tiles            | Determination of chemical resistance; interaction with chemicals and visual inspection                  | ANA-KO-28<br>EN-ISO 10545-13      | VLP      |
| 34  |                          | Determination of resistance to staining; treatment with staining agents, cleaning and visual inspection | ANA-KO-35<br>EN-ISO 10545-14      | VLP      |

of **Stichting Technisch Centrum voor de Keramische Industrie (TCKI)**  
**Laboratorium en Meetgroep**

This annex is valid from: **06-08-2025** to **01-11-2028**

Replaces annex dated: **16-07-2025**

| No.                             | Material or product  | Type of activity <sup>1</sup>   | Internal reference number    | Location |
|---------------------------------|--|---|------------------------------|----------|
| <b>Gravimetric measurements</b> |  |   |                              |          |
| 35                              | Raw materials (clay, sand and additives)                       | Determination of moisture content and/of density, dry and wet, gravimetrically  | ANA-FY-01<br>in-house method | VLP      |
| 36                              |  | Determination of particle size distribution; pipette analysis and wet and dry sieving, gravimetrically<br><br>Pipette fractions 2, 10 and 16 µm<br>sieving fractions 45, 63, 125 and 250 µm | ANA-DG-02<br>in-house method | VLP      |
| 37                              | Raw materials (sand and additives)                             | Determination of grain size distribution of grainy material, dry sieving, gravimetrically<br><br>0,045; 0,063; 0,125; 0,250; 0,500; 1,0; 2,0 and 4,0 mm                                     | ANA-DG-01<br>in-house method | VLP      |
| 38                              | Ceramic materials and raw materials (clay, sand and additives) | Determination of loss on ignition at 1025 °C; gravimetrically   | ANA-DI-06<br>in-house method | VLP      |
| <b>Anorganic analyses</b>       |  |   |                              |          |
| 39                              | Raw materials (clay, sand and additives)                       | Determination of organic carbon; IR measurement of the amount of CO <sub>2</sub> released after incineration  | ANA-DI-14<br>in-house method | VLP      |
| 40                              | Raw materials (clay, sand and additives)                       | Determination of total carbon; IR measurement of the amount of CO <sub>2</sub> released after incineration  | ANA-DI-18<br>in house method | VLP      |
| 41                              | Watery solutions   | Determination of pH; potentiometry  | ANA-DI-04<br>EN-ISO 10523    | VLP      |
| 42                              |  | Determination of electrical conductivity; conductometry   | ANA-DI-03<br>ISO 7888        | VLP      |
| 43                              | Ceramic materials and raw materials (clay, sand and additives) | Determination of sulphur after destruction with HClO <sub>4</sub> /HNO <sub>3</sub> ; ICP-AES   | MVB-03<br>in-house method    | VLP      |

of **Stichting Technisch Centrum voor de Keramische Industrie (TCKI)**  
**Laboratorium en Meetgroep**

This annex is valid from: **06-08-2025 to 01-11-2028**

Replaces annex dated: **16-07-2025**

| No. | Material or product  | Type of activity <sup>1</sup>   | Internal reference number  | Location |
|-----|--|---|--|----------|
| 44  | Raw materials (clay, sand and additives)                       | Determination of water-soluble salts; ICP-AES<br><br>sodium, potassium, calcium, magnesium (expressed as oxides) and sulphur (expressed as sulphate)  | MVB-11<br>in-house method  | VLP      |
| 45  | Masonry bricks   | Determination of soluble salts; ICP-AES<br><br>sodium, potassium and magnesium  | ANA-KO-45<br>EN-772-5  | VLP      |
| 46  |  | Determination of soluble salts; ICP-AES<br><br>sulphur (expressed as sulphate) and calcium  | ANA-KO-45<br>in-house method<br>(sample pre-treatment EN 772-5, eluate analysis NEN 6966)          | VLP      |
| 47  | Ceramic materials and raw materials (clay, sand and additives) | Determination of the composition of elements by X Ray fluorescence; Wave length dispersive XRF<br><br>silicon, aluminium, sodium, potassium, calcium, magnesium, iron, titanium, manganese, tin, molybdenum, strontium, lead, zinc, copper, nickel, cobalt, chromium, vanadium, barium, zircon and phosphor (expressed as oxides)<br><br>including loss on ignition at 1025 °C; gravimetrically | ELM-05, ANA-DI-06<br>XRF determination: in house method<br><br>loss on ignition: in-house method   | VLP      |
| 48  | Raw materials (clay, sand and ceramic additives)               | Determination of the composition of elements by X Ray fluorescence; Wave length dispersive XRF<br><br>iron, calcium, manganese, chromium and titanium (expressed as oxides)   | ELM-08<br>in-house method  | VLP      |
| 49  | Ceramic tiles  | Determination of lead and cadmium release; ICP-AES  | MVB-16<br>EN-ISO 10545-15  | VLP      |
| 50  | Consumer pottery   | Determination of lead and cadmium release; ICP-AES  | MVB-16<br>in-house method<br><br>(sample pre-treatment EN 1388-1, eluate analysis EN-ISO 10545-15) | VLP      |

of **Stichting Technisch Centrum voor de Keramische Industrie (TCKI)**  
**Laboratorium en Meetgroep**

This annex is valid from: **06-08-2025** to **01-11-2028**

Replaces annex dated: **16-07-2025**

| No.  | Material or product                           | Type of activity <sup>1</sup>  | Internal reference number  | Location |
|--|---|--|--|----------|
| <b>Leaching behaviour</b>  |   |  |  |          |
| a  | Ceramic building materials                    | Determination of leaching of inorganic components of monolithic materials with the abbreviated leaching test.  | MVB-13<br>BRL 52230, chapter 4   | VLP      |
| <p><b>AP04-verrichtingen</b> (versie 23-06-2016 AP04) (NAW-0132), <b>pakket U2 (uitloogonderzoek; vormgegeven bouwstoffen; diffusiebepaalde uitloging)</b> (versie 23-06-2016 U2) (NAW-0132-4), <b>pakket E (analyse van eluaten)</b> (versie 23-06-2016) (NAW-0132-1)<br/> <b>volledig pakket (waarbij de bepaling van het gehalte aan cyaniden structureel uitbesteed wordt)</b></p> |   |  |  |          |
| --   | Moulded building materials                    | Sample treatment for AP04-U11 (and AP04-E)   | MVB-13<br>AP04-V   | VLP      |
| b  |   | Determination of emission of inorganic components; tank test   | MVB-13<br>AP04-U-II and<br>NEN 7375  | VLP      |
| 51   | Eluates                                       | Determination of pH; potentiometry   | ANA-DI-04<br>AP04-U-IV and<br>ISO 10523  | VLP      |
| 52   |   | Determination of electrical conductivity of an eluate; conductometry   | ANA-DI-03<br>in accordance with AP04-U-V and<br>in accordance with ISO 7888  | VLP      |
| 53   |   | Determination of the metal content;<br>ICP-AES<br>lead, cadmium, zinc, nickel, arsenic, chrome, copper, molybdenum, barium, cobalt, vanadium, calcium, mercury, tin, antimony and selenium | ELM-04<br>AP04-E-I, -II, -III, -IV, -V, -VI, -VII, VIII, -IX, -X, XI, -XII, -XIII, -XIV -XV en -XIX en<br>NEN-EN-ISO 17294-2 | VLP      |
| 54   |   | Determination of anion content;<br>ion-chromatography<br><br>bromide, chloride and sulphate  | ELM-03<br>AP04-E-XVII<br>NEN-EN-ISO 10304-1  | VLP      |
| 55   |   | Determination of fluoride content;<br>potentiometry/IC   | ELM-12, ELM-03<br>AP04-E-XVIII<br>NEN 6578<br>NEN-EN-ISO 10304-1   | VLP      |
| <b>Emission measurements</b>   |   |  |  |          |
| 56   | Emitted air, smoke, process and exhaust gases | Determination of homogeneity (plane area assessment) for the purpose of all the samplings and tests mentioned in this scope  | ANA-MGR-07<br>EN 15259   | MoLo     |

of **Stichting Technisch Centrum voor de Keramische Industrie (TCKI)**  
**Laboratorium en Meetgroep**

This annex is valid from: **06-08-2025** to **01-11-2028**

Replaces annex dated: **16-07-2025**

| No.                                      | Material or product                           | Type of activity <sup>1</sup>   | Internal reference number  | Location |
|--|---|---|--|----------|
| <b>Cluster: Physical parameters</b>      |   |   |  |          |
| 57                                       | Emitted air, smoke, process and exhaust gases | Determination of the waste gas characteristics: flow rate; differential pressure measurement; thermocouple/Pt100  | ANA-MGE-01<br>ISO 10780 en<br>ANA-MGE-02<br>ISO 16911-1                      | MoLo     |
| 58                                       |   | Determination of the water vapor content (in pipes); gravimetry   | ANA-MGR-02<br>ANA-MGR-01<br>NEN-EN 14790                                     | MoLo     |
| <b>Cluster: Dust related</b>             |   |   |  |          |
| 59                                       | Emitted air, smoke, process and exhaust gases | Determination of the dust content: gravimetry (including associated sampling)   | ANA-MGA-02<br>in-house method<br>ANA-MGR-02<br>NEN-EN 13284-1                | MoLo     |
| <b>Cluster: Gaseous (in)organic</b>      |   |   |  |          |
| 60                                       | Emitted air, smoke, process and exhaust gases | Determination of sulphur dioxide (SO <sub>2</sub> ) content; IR (including associated sampling)   | ANA-MGR-05<br>NEN-ISO 7935   | MoLo     |
| 61                                       |   | Determination of content of nitrogen oxides (NO <sub>2</sub> ) and oxygen (O <sub>2</sub> ) chemiluminescence and paramagnetism (including associated sampling) | ANA-MGR-05, ANA-MGR-06<br>NEN-ISO 10849<br>NEN-EN 14789<br>NEN-EN 14792      | MoLo     |
| 62                                       | Emitted air, smoke, process and exhaust gases | Determination of hydrocarbon C <sub>x</sub> H <sub>y</sub> content; FID (including associated sampling)   | ANA-MGR-05<br>NEN-EN 12619   | MoLo     |
| 63                                       | Emitted air, smoke, process and exhaust gases | Determination of CO, CO <sub>2</sub> content; IR (including associated sampling)  | ANA-MGR-05<br>NEN-ISO 12039<br>NEN-EN 15058                                  | MoLo     |
| <b>Inorganic analyses (wet-chemical)</b> |   |   |  |          |
| 64                                       | Emitted air, smoke, process and exhaust gases | Determination of chloride and sulphuroxides content; potentiometric titration / ion-chromatography (including associated sampling)                              | MVW-03, ANA-MGR-01, ELM-03<br>NEN-EN 1911<br>NEN-EN 14791<br>In house method | MoLo     |
| 65                                       | Emitted air, smoke, process and exhaust gases | Determination of (including associated sampling)  | ANA-DI-15, MVW-03,<br>ANA-MGR-01<br>NEN-ISO 15713                            | MoLo     |

of **Stichting Technisch Centrum voor de Keramische Industrie (TCKI)**  
**Laboratorium en Meetgroep**

This annex is valid from: **06-08-2025** to **01-11-2028**

Replaces annex dated: **16-07-2025**

| No.  | Material or product     | Type of activity <sup>1</sup>   | Internal reference number   | Location  |
|--|-------------------------|---|---|-----------|
| 66   |                         | Determination of the total emission of Hg, As, Cd, Cr, Co, Cu, Mn, Ni, Pb, Sb, Tl and V (including associated sampling)<br><br>(the associated test is structurally carried out by another accredited laboratory) | MVW-03<br>ANA-MGR-01, ANA-MGR-02<br>EN 13211<br>NEN-EN 14385  | MoLo      |
| <b>Work place atmosphere measurements</b>      |                         |   |   |           |
| 67   | Air                     | Determination of total and respirable (fine) dust content in the work place; gravimetry (including associated sampling)   | ANA-MGA-01, ANA-MGA-02<br>in-house method   | AtLo      |
| 68   |                         | Determination of (respirable) quartz content; FTIR (including associated sampling)  | ANA-MGA-03<br>NIOSH 7602  | AtLo      |
| <b>Analysis of surface areas and floorings</b> |                         |   |   |           |
| 69   | Floor covering material | Determination of anti-slip properties of floorings; dynamic coefficient of friction; tribometer   | ANA-KO-82, ANA-KO-83, ANA-KO-84, ANA-KO_85, ANA-KO-86<br>CEN/TS 16165 Annex D, DIN 51131(2014), EN 14041, NEN 7909 en EN 13893  | VLP, AtLo |
| 70   |                         | Determination of anti-slip properties of floorings; the maximum angle of the surface until slip occurs; ramp walking test   | ANA-KO-76, ANA-KO-77, ANA-KO-78, ANA-KO-80, ANA-KO_81<br>CEN/TS 16165 Annex A en B, DIN 51097(1992), DIN 51130(2014), EN 13451-1 en EN13845   | VLP       |
| 71   | Clay pavers             | Determination of unpolished and polished slip and skid resistance; pendulum test  | ANA-KO-25, ANA-KO-68, ANA-KO-69, ANA-KO-70, ANA-KO-71, ANA-KO-72, ANA-KO-73, ANA-KO-74<br><br>Polishing:<br>§4.1 van BRL 2360 en CEN/TS 12633<br>Measurements:<br>CEN/TS 16165 Annex C, EN 1344 §4.2.5, EN 1338 (bijlage I), EN1339 (bijlage I), EN 1340 (bijlage I), EN 14231, EN 1341 §4.6, EN 1342 §4.6, CEN/TS 15676, EN 14904 §4.2, EN 13036-4, BS 7976-2(2002 en A1 2013) | VLP, AtLo |