



Accreditation Scope

RAK Lab L.L.C, NAL030
Testing Laboratory, (ISO/IEC 17025:2017)

Po.Box: 86 , Khor Khwair , Ras Al Khaimah United Arab Emirates , ,

Issue Date: 22/05/2025
Issue No: 5

Expiry Date: 07/04/2028

| Testing Field | Materials/ Products Tested | Type of test/ Test parameter/ Properties measured/Range of measurement | Test Method (Standard, Internal Procedure, Technique) | Permanent lab (P) / Client-site (S) |
|--|----------------------------------|---|---|--|
| Construction materials and building | Aggregates | Crushing Value | BS 812-110:1990 | P |
| Construction materials and building | Aggregates | Impact Value | BS 812-112:1990 Amd 8772:1995 | P |
| Construction materials and building | Aggregates | Elongation Index | BS 812-105.2:1990 | P |
| Construction materials and building | Aggregates | Flakiness Index | BS 812-105.1:1989 | P |
| Construction materials and building | Aggregates | Particle Size Distribution (Wet & Dry Sieving) | BS 812-103.1:1985 Amd 6003:1989, Clause 7.2&7.3 | P |
| Construction materials and building | Aggregates | Ten Percent Fine Value (Dry & Soaked) | BS 812-111:1990, Clause 7.1 & 7.2 | P |
| Construction materials and building | Aggregates | Resistance to Degradation by Abrasion and Impact in the Los Angeles Machine | ASTM C131/C131M-20 | P |
| Construction materials and building | Aggregates | Sieve Analysis | ASTM C136/C136M-19 | P |

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| Construction materials and building | Aggregates | Resistance to Degradation by Abrasion and impact in the Los Angeles machine | ASTM C535-16 | P |
| Construction materials and building | Aggregates | Soundness by the Use of Sodium Sulfate or Magnesium Sulfate | ASTM C88/C88M-24 | P |
| Construction materials and building | Aggregates | Density, Relative Density (Specific Gravity) and Absorption | ASTM C128-22 | P |
| Construction materials and building | Aggregates | Density, Relative Density (Specific Gravity) and Absorption | ASTM C127-24 | P |
| Construction materials and building | Aggregates | Particle Size Distribution | BS EN 933-1:2012 | P |
| Construction materials and building | Aggregates | Clay Lumps and Friable Particles | ASTM C142/C142M-17 - Reapproved 2023 | P |
| Construction materials and building | Aggregates | Shell Content | BS 812-106:1985 | P |
| Construction materials and building | Aggregates | Material Finer Than 75 Microns by Washing | ASTM C117-23 | P |

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| Construction materials and building | Aggregates | Particle Density and Water Absorption | BS EN 1097-6:2022, Clause 7, 8, 9 | P |
| Construction materials and building | Aggregates | Shell Content | BS EN 933-7:1998 | P |
| Construction materials and building | Aggregates | Flakiness Index | BS EN 933-3:2012 | P |
| Construction materials and building | Aggregates | Shape Index | BS EN 933-4:2008 | P |
| Construction materials and building | Aggregates | Resistance to Fragmentation by the Los Angeles Method | BS EN 1097-2:2020 Clause 5 | P |
| Construction materials and building | Aggregates | Drying Shrinkage | BS EN 1367-4:2008 | P |
| Construction materials and building | Aggregates | Particle Densities and Water Absorption | BS 812-2:1995, Clause 5.3, 5.4 & 5.5 | P |
| Construction materials and building | Aggregates | Flat Particles, Elongated Particles or Flat and Elongated Particles | ASTM D4791-19-Reapproved 2023 | P |
| Construction materials and building | Aggregates | Crushed and Broken Surfaces | BS EN 933-5:1998 | P |
| Construction materials and building | Aggregates | Resistance to Wear (Micro-Deval) | BS EN 1097-1:2011 | P |

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| Construction materials and building | Aggregates and Rocks | Heavy Grading | CIRIA C683, 2nd Edition 2007 / BS EN 13383-2:2019 Clause 6 | P |
| Construction materials and building | Aggregates and Rocks | Light Grading | CIRIA C683, 2nd Edition 2007 / BS EN 13383-2:2019 Clause 6 | P |
| Construction materials and building | Aggregates and Rocks | Particle Density and Water Absorption | CIRIA C683, 2nd edition-2007/ BS EN 13383-2:2019 Clause 8 | P |
| Construction materials and building | Aggregates and Rocks | Block Integrity (Drop Test) for Heavy and Light Grading | CIRIA C683, 2nd Edition 2007 / BS EN 13383-1:2002 Annex B.2: Tests | P |
| Construction materials and building | Aggregates and Rocks | Percentage of Pieces of Armour Stone with Length to Thickness Ratio Greater than 3 | CIRIA C683, 2nd Edition 2007 / BS EN 13383-2:2019 Clause 7 | P |
| Construction materials and building | Aggregates and Rocks | Uniaxial Compressive Strength | BS EN 1926:2006 | P |
| Construction materials and building | Aggregates and Rocks | Test for Thermal and Weathering Properties (Magnesium Sulfate Soundness Test) | BS EN 1367-2:2009 | P |
| Construction materials and building | Aggregates and Rocks | Point Load Strength Index | ISRM 1985 | P |

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| Construction materials and building | Aggregate and Cement | Potential Alkali Reactivity of Cement-Aggregate Combination (Mortar-Bar Method) | ASTM C227-10 | P |
| Construction materials and building | Soils | California Bearing Ratio (CBR) | BS 1377-4:1990 Amd 8259:1995 & 13925:2002, Clause 7.2.3.2 | P |
| Construction materials and building | Soils | Moisture Content | BS 1377-2:1990, Clause 3.2 | P |
| Construction materials and building | Soils | Water Content | BS EN ISO 17892-1:2014+A1:2022 | P |
| Construction materials and building | Soils | Dry Density-Moisture Content Relationship using 4.5 kg Rammer for Coarse and Medium Gravel Size Particles | BS 1377-4:1990 Amd 8259:1995 & 13925:2002, Clause 3.5 & 3.6 | P |
| Construction materials and building | Soils | Determination of Particle Size Distribution | BS EN ISO 17892-4:2016, Clause 5.2 | P |
| Construction materials and building | Soils | Determination of Sand Equivalent Value | ASTM D2419-22 | P |

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| Construction materials and building | Soils | Determination of Liquid Limit (by Fall Cone Method) | BS EN ISO 17892-12:2018+A2:2022, Clause 5.3 | P |
| Construction materials and building | Soils | Determination Plastic Limit and Plasticity Index | BS EN ISO 17892-12:2018+A2:2022, Clause 5.5 & 6.5 | P |
| Construction materials and building | Soils | In-Situ Density by Sand Replacement (Large Pouring Cylinder) | BS 1377-9:1990 Amd 8264:1995, Clause 2.2 | P / S |
| Construction materials and building | Hardened Concrete | Compressive Strength of Concrete Cubes | BS 1881-116:1983 Amd 6097:1989 & 6720:1991 (superseded, withdrawn) | P |
| Construction materials and building | Hardened Concrete | Compressive Strength of Concrete Cubes | BS EN 12390-3:2019 | P |
| Construction materials and building | Hardened Concrete | Shape, Dimensions and other Requirements for Specimens | BS EN 12390-1:2021 | P |
| Construction materials and building | Hardened Concrete | Density | BS EN 12390-7:2019 | P |
| Construction materials and building | Hardened Concrete | Making and Curing | BS EN 12390-2:2019 | P |

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| Construction materials and building | Hardened Concrete | Electrical Indication of Concrete's Ability to Resist Chloride Ion Penetration | ASTM C1202-22e1 | P |
| Construction materials and building | Hardened Concrete | Depth of Penetration of Water Under Pressure | BS EN 12390-8:2019 | P |
| Construction materials and building | Hardened Concrete | Water Permeability | DIN 1048-5:1991 | P |
| Construction materials and building | Hardened Concrete | Determination of Water Absorption on Hardened Concrete | BS 1881-122:2011+A1:2020 | P |
| Construction materials and building | Hardened Concrete | Initial Surface Absorption of Concrete | BS 1881-208:1996 | P |
| Construction materials and building | Pre-Cast Concrete Masonry Units | Measurement of Dimensions | BS 6073-1:1981 Amd 3944:1982, 4462:1984, 14523:2003, Appendix A | P |
| Construction materials and building | Pre-Cast Concrete Masonry Units | Compressive Strength | BS 6073-2:1981 Amd 4508:1984, Appendix B | P |
| Construction materials and building | Pre-Cast Concrete Paving Blocks | Dimensions | BS 6717-1:1993 Annex A | P |

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| Construction materials and building | Pre-Cast Concrete Paving Blocks | Compressive Strength | BS 6717-1:1993 Annex B | P |
| Construction materials and building | Cement | Compressive Strength | BS EN 196-1:2016 | P |
| Construction materials and building | Cement | Setting Time (Initial and Final) | BS EN 196-3:2016 ASTM C191-21 | P |
| Construction materials and building | Cement | Fineness of Cement | BS EN 196-6:2018 ASTM C204-24 | P |
| Construction materials and building | Cement | Le Chatelier Soundness | BS EN 196-3:2016 | P |
| Construction materials and building | Cement | Flexural Strength | BS EN 196-1:2016 | P |
| Construction materials and building | Cement | Consistency | BS EN 196-3:2016 ASTM C187-23 | P |
| Construction materials and building | Cement | Compressive Strength | ASTM C109/C109M-24 | P |
| Construction materials and building | Cement | Air Content | ASTM C185-20 | P |
| Construction materials and building | Cement | Softness (Specific Surface Area) by Air Permeability | GSO 1915:2009, Clause 2.1 | P |
| Construction materials and building | Cement | Standard Texture (Consistency) | GSO 1915:2009, Clause 2.2 | P |

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| Construction materials and building | Cement | Initial and Final Setting Time | GSO 1915:2009, Clause 2.3 | P |
| Construction materials and building | Cement | Pressure Resistance (Compressive Strength) | GSO 1915:2009, Clause 2.4 | P |
| Construction materials and building | Steel | Tensile Properties (Yield Strength, Tensile Strength, Elongation after Fracture, Elongation at Maximum Force) | BS EN ISO 15630-1:2019 BS EN ISO 6892-1:2019 BS 4449:2005+A3:2016 | P |
| Construction materials and building | Steel | Re-Bend | BS 4449:2005+A3:2016 | P |
| Construction materials and building | Multi-Wire Steel Prestressing Strand | Mechanical Properties | ASTM A1061/A1061M-20e1 ASTM A416/A416M-24 | P |
| Chemical | Water / Wastewater | Determination of Sulphate (SO ₄) / >5mg/L | APHA 4500-SO ₄ 2-C, 24th Edition 2023 | P |
| Chemical | Water / Wastewater | Determination of Chloride | APHA 4500-Cl-B, 24th Edition 2023 | P |
| Chemical | Water / Wastewater | Determination of Calcium | APHA 3500-Ca-B, 24th Edition 2023 | P |
| Chemical | Water / Wastewater | Determination of Magnesium | APHA 3500-Mg-B, 24th Edition 2023 | P |

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| Chemical | Water / Wastewater | Determination of Total Hardness | APHA 2340-C, 24th Edition 2023 | P |
| Chemical | Water / Wastewater | Total Hardness (as CaCO ₃) (By Calculation) | APHA 2340-B, 24th Edition 2023 | P |
| Chemical | Water / Wastewater | Determination of Alkalinity | APHA 2320-B, 24th Edition 2023 | P |
| Chemical | Water / Wastewater | pH @ 25 °C / 0 – 14 PH units | APHA 4500-H+-B, 24th Edition 2023 | P |
| Chemical | Water / Wastewater | Total Suspended Solids at 103 °C to 105 °C | APHA 2540-D, 24th Edition 2023 | P |
| Chemical | Water / Wastewater | Total Dissolved Solids at 180 °C | APHA 2540-C, 24th Edition 2023 | P |
| Chemical | Water / Wastewater | Oil & Grease / >5 mg/L | APHA 5520-B, 24th Edition 2023 | P |
| Chemical | Water / Wastewater | Chemical Oxygen Demand (COD) / >5 mg/L | APHA 5220-B, 24th Edition 2023 | P |
| Chemical | Water / Wastewater | Biochemical Oxygen Demand (BOD) 5 days at 20 °C | APHA 5210-B, 24th Edition 2023 | P |

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|----------|--------------------|--|---|---|
| Chemical | Water / Wastewater | Copper (Cu) / 0.004-50 mg/L, Manganese (Mn) / 0.001- 50mg/L, Lead (Pb) / 0.008-100 mg/L, Nickel (Ni) / 0.002-50 mg/L, Iron (Fe) / 0.01-100 mg/L, Zinc (Zn) / 0.002-100 mg/L, Silver (Ag) / 0.002-50 mg/L, Chromium (Cr) / 0.001-50 mg/L, Cobalt (Co) / 0.002-50 mg/L Cadmium (Cd) / 0.002-50 mg/L, Sodium (Na) / 0.69-100 mg/L, Potassium (K) / 0.007-100 mg/L, Calcium (Ca) / 0.02-100 mg/L, Magnesium (Mg) / 0.002- 100 mg/L | APHA 3030-F, APHA 3120-B, 24th Edition 2023 | P |
| Chemical | Water / Wastewater | Conductivity at 25 °C / 1 – 12990 µS/cm | APHA 2510-B, 24th Edition 2023 | P |

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| Chemical | Used Lubricating Oil | Aluminum (Al) / 0.02-40 mg/kg, Calcium (Ca) / 0.08-9000 mg/kg, Chromium (Cr) / 0.01-40 mg/kg, Copper (Cu) / 0.01-160 mg/kg, Iron (Fe) / 0.02-140 mg/kg, Lead (Pb) / 0.07-160 mg/kg, Manganese (Mn) / 0.01- 700 mg/kg, Sodium (Na) / 0.02-70 mg/kg, Silicon (Si) / 0.1-40 mg/kg, Tin (Sn) / 0.03-40 mg/kg | ASTM D5185-18 | P |
| Chemical | Used Lubricating Oil | Base Number of Petroleum Products by Potentiometric Perchloric Acid Titration / 0.0-300 mg / KOH | ASTM D2896-21 (Procedure B) | P |

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| Chemical | Petroleum Products | Determination of Total Sulfur in Light Hydrocarbon, Spark Ignition Engines, Diesel Engine Fuel, and Engine Oil by Ultraviolet Fluorescence / 0-8000 ppm | ASTM D5453-24 | P |
| Chemical | Soils | Acid Soluble Chloride | BS 1377-3:2018+A1:2021 Clause 9.3 | P |
| Chemical | Soils | Acid Soluble Sulphate | BS 1377-3:2018+A1:2021 Clause 7.9/7.6 | P |
| Chemical | Soils | pH / 0-14 ph units | BS 1377-3:2018+A1:2021 Clause 12 | P |
| Chemical | Ground Water | pH / 0-14 pH units | BS 1377-3:2018+A1:2021 Clause 12 | P |
| Chemical | Ground Water | Sulphate Content | BS 1377-3:2018+A1:2021 Clause 7.8/7.6 | P |
| Chemical | Hardened Concrete | Chloride Content | BS 1881-124:2015+A1:2021 Clause 12.1 | P |

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| Chemical | Hardened Concrete | Sulphate Content | BS 1881-124:2015+A1:2021 Clause 12.2 | P |
| Chemical | Cement | Loss on Ignition | BS EN 196-2:2013 Clause 4.4.1 | P |
| Chemical | Cement | Sulfate | BS EN 196-2:2013 Clause 4.4.2 | P |
| Chemical | Cement | Insoluble Residue (HCl / Na ₂ CO ₃) | BS EN 196-2:2013 Clause 4.4.3.1 | P |
| Chemical | Cement | Silica | BS EN 196-2:2013 Clause 4.5.2 – 4.5.9 | P |
| Chemical | Cement | Iron Oxide | BS EN 196-2:2013 Clause 4.5.10 | P |
| Chemical | Cement | Aluminum Oxide | BS EN 196-2:2013 Clause 4.5.11 | P |
| Chemical | Cement | Determination of Calcium Oxide | BS EN 196-2:2013 Clause 4.5.14/4.5.12 | P |
| Chemical | Cement | Magnesium Oxide | BS EN 196-2:2013 Clause 4.5.13/4.5.15 | P |
| Chemical | Cement | Chloride | BS EN 196-2:2013 Clause 4.5.16 | P |
| Chemical | Cement | Alkali (Na ₂ O, K ₂ O) | In-House Technical Procedure 126; Rev.2 dated 20.11.2021 | P |

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| Chemical | Aggregates | Light Weight Particles | ASTM C123/C123M-23 | P |
| Chemical | Aggregates | Acid Soluble Chloride and Sulphate Content | BS 812-117:1988 Appendix C BS 812-118:1988 Cl 6.4 | P |
| Chemical | Aggregates | Assessment of Fines- Methylene Blue Test | BS EN 933-9:2022 | P |
| Chemical | Aggregates | Chloride Content (Acid- Soluble) | BS EN 1744-5:2006 | P |
| Chemical | Aggregates | Sulphate Content (Acid- Soluble) | BS EN 1744-1:2009 +A1:2012 Clause 12 | P |
| Chemical | Aggregates | Potential Alkali-Silica Reactivity | ASTM C289-07 [Withdrawn] | P |
| Chemical | Aggregates | Determination of Organic Components Affecting the Setting and the Hardening of Cement | BS EN 1744-1:2009 +A1:2012 Clause 15.1 | P |
| Chemical | Aggregates | Determination of Light Weight Contaminators | BS EN 1744-1:2009 +A1:2012, Clause 14.2 | P |
| Chemical | Aggregates | Organic Impurities in Fine Aggregates For Concrete | ASTM C40/C40M-20 | P |

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| Environment. Health protection. Safety | Indoor Air Quality | Total Suspended Particulate Matter (TSPM) | BS EN 481:1993 BS 6069-3.5:1993 | S |
| Environment. Health protection. Safety | Indoor Air Quality | Respirable Suspended Particulate Matter PM 10, 2.5 & 1 (RSPM) / 0-10 µg/m ³ | BS EN 12341:1999 BS EN 481:1993 BS EN 6069-3.5:1993 | S |
| Environment. Health protection. Safety | Indoor Air Quality | Nitrogen Dioxide (NO ₂) / 0-100 ppm | BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015 | S |
| Environment. Health protection. Safety | Indoor Air Quality | Sulphur Dioxide (SO ₂) / 0-20 ppm | BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015 | S |
| Environment. Health protection. Safety | Indoor Air Quality | Volatile Organic Compound (VOC) / 0-100 ppm | BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015 | S |
| Environment. Health protection. Safety | Indoor Air Quality | Methane (CH ₄) / 0-100 % | BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015 | S |
| Environment. Health protection. Safety | Indoor Air Quality | Ammonia (NH ₃) / 0-50 ppm | BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015 | S |
| Environment. Health protection. Safety | Indoor Air Quality | Carbon monoxide (CO) / 0-50 ppm | BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015 | S |

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Accreditation Scope

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Testing Laboratory, (ISO/IEC 17025:2017)

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|--|---------------------|---|---|---|
| Environment. Health protection. Safety | Indoor Air Quality | Carbon Dioxide (CO ₂) / 0- 5000 ppm | BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015 | S |
| Environment. Health protection. Safety | Indoor Air Quality | Hydrogen Sulphide (H ₂ S) / 0-50 ppm | BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015 | S |
| Environment. Health protection. Safety | Indoor Air Quality | Oxygen (O ₂) / 0-25 % | BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015 | S |
| Environment. Health protection. Safety | Indoor Air Quality | Ozone(O ₃) / 0-100 ppm | BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015 | S |
| Environment. Health protection. Safety | Indoor Air Quality | Temperature/ -40 to 85°C | BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015 | S |
| Environment. Health protection. Safety | Indoor Air Quality | Relative Humidity / 0-100% | BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015 | S |
| Environment. Health protection. Safety | Indoor Air Quality | Formaldehyde (HCHO) / 0- 10 ppm | BS EN 45544-1:2015/ BS EN 50271:2018 /BS EN 60079-29-2:2015 | S |
| Environment. Health protection. Safety | Outdoor Air Quality | Total Suspended Particulate Matter (TSPM) | USEPA-e CFR: Title 40:Part 50:Sep 2012 | S |

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|--|---------------------|---|---|---|
| Environment. Health protection. Safety | Outdoor Air Quality | Respirable Suspended Particulate Matter (RSPM -PM 10) / 0-10µg/m3 | USEPA-e CFR: Title 40:Part 50:Sep 2012 | S |
| Environment. Health protection. Safety | Outdoor Air Quality | Sulphur Dioxide (SO2) / 0- 20 ppm | BS EN 45544-1:2015/BS EN 50271:2018/BS EN 60079-29-2:2015 | S |
| Environment. Health protection. Safety | Outdoor Air Quality | Nitrogen Dioxide (NO2) / 0-100 ppm | BS EN 45544-1:2015/BS EN 50271:2018/BS EN 60079-29-2:2015 | S |
| Environment. Health protection. Safety | Outdoor Air Quality | Volatile Organic Compound (VOC) / 0-100 ppm | BS EN 45544-1:2015/BS EN 50271:2018/BS EN 60079-29-2:2015 | S |
| Environment. Health protection. Safety | Outdoor Air Quality | Ozone (O3) / 0-100 ppm | BS EN 45544-1:2015/BS EN 50271:2018/BS EN 60079-29-2:2015 | S |
| Environment. Health protection. Safety | Outdoor Air Quality | Ammonia (NH3) / 0-50 ppm | BS EN 45544-1:2015/BS EN 50271:2018/BS EN 60079-29-2:2015 | S |
| Environment. Health protection. Safety | Outdoor Air Quality | Carbon monoxide (CO) / 0-50 ppm | BS EN 45544-1:2015/BS EN 50271:2018/BS EN 60079-29-2:2015 | S |
| Environment. Health protection. Safety | Outdoor Air Quality | Hydrogen Sulphide (H2S) / 0-50 ppm | BS EN 45544-1:2015/BS EN 50271:2018/BS EN 60079-29-2:2015 | S |

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|--|------------------------------------|---|---|---|
| Environment. Health protection. Safety | Outdoor Air Quality | Carbon Dioxide (CO ₂) / 0- 5000 ppm | BS EN 45544-1:2015/BS EN 50271:2018/BS EN 60079-29-2:2015 | S |
| Environment. Health protection. Safety | Outdoor Air Quality | Methane (CH ₄) / 0- 100 % | BS EN 45544-1:2015/BS EN 50271:2018/BS EN 60079-29-2:2015 | S |
| Environment. Health protection. Safety | Outdoor Air Quality | Oxygen(O ₂) / 0-25 % | BS EN 45544-1:2015/BS EN 50271:2018/BS EN 60079-29-2:2015 | S |
| Environment. Health protection. Safety | Outdoor Air Quality | Formaldehyde (HCHO) / 0-10 ppm | BS EN 45544-1:2015/BS EN 50271:2018/BS EN 60079-29-2:2015 | S |
| Environment. Health protection. Safety | Noise | Occupational Noise levels/0 - 140 dBA | ISO 1996-2:2017 | S |
| Environment. Health protection. Safety | Noise | Personal Noise exposure / 0 - 140 dBA | ISO 9612:2009 | S |
| Environment. Health protection. Safety | Personal Dust Monitoring/ Exposure | Personal dust exposure - Respirable Suspended Particulate Matter (RSPM) / 0 - 10µg/m ³ | MDHS 14/3:2000 | S |
| Environment. Health protection. Safety | Flue Gas | Carbon Monoxide (CO) / 0-3000 ppm | USEPA CTM 030: Oct 1997 & USEPA CTM 034: Sep. 1999 | S |

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|--|----------|---------------------------------------|--|---|
| Environment. Health protection. Safety | Flue Gas | Oxides of Nitrogen (NOx) / 0-1000 ppm | USEPA CTM 030: Oct 1997 & USEPA CTM 034: Sep. 1999 | S |
| Environment. Health protection. Safety | Flue Gas | Oxygen (O2) / 0-21 % | USEPA CTM 030: Oct 1997 & USEPA CTM 034: Sep. 1999 | S |
| Environment. Health protection. Safety | Flue Gas | Carbon Dioxide (CO2) / 0- 30 % | USEPA CTM 030: Oct 1997 & USEPA CTM 034: Sep. 1999 | S |
| Environment. Health protection. Safety | Flue Gas | Temperature / 0 – 1000 °C | USEPA CTM 030: Oct 1997, USEPA CTM 034: Sep 1999, Inhouse procedure ESOP- 009 Rev. 0 dated 1.12.2017 | S |
| Environment. Health protection. Safety | Flue Gas | Hydrogen Sulphide (H2S) / 0-500 ppm | USEPA CTM 030: Oct 1997, USEPA CTM 034: Sep 1999, Inhouse procedure ESOP- 009 Rev. 0 dated 1.12.2017 | S |
| Environment. Health protection. Safety | Flue Gas | Hydro carbons (CxHy) / 0-5000 ppm | USEPA CTM 030: Oct 1997, USEPA CTM 034: Sep 1999, Inhouse procedure ESOP- 009 Rev. 0 dated 1.12.2017 | S |
| Environment. Health protection. Safety | Flue Gas | Sulphur Dioxide (SO2) / 0-1000 ppm | USEPA CTM 030: Oct 1997, USEPA CTM 034: Sep 1999, Inhouse procedure ESOP- 009 Rev. 0 dated 1.12.2017 | S |

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|--|-----------------|---|---|---|
| Environment. Health protection. Safety | Illuminance | Illuminance- Lux / 0 - 200000 Lux | BS EN 12464-1:2021 | S |
| Environment. Health protection. Safety | Stack Emissions | Total Suspended Particles (TSP) | USEPA EMC Method 17: Sep 2017 | S |
| Environment. Health protection. Safety | Stack Emissions | Moisture | US EPA EMC Method 4: Aug 2017 | S |
| Environment. Health protection. Safety | Stack Emissions | Carbon Dioxide (CO ₂) / 0- 30 % | USEPA CTM 030: Oct 1997 &USEPA CTM 034: Sep 1999 | S |
| Environment. Health protection. Safety | Stack Emissions | Carbon Monoxide (CO) / 0-3000 ppm | USEPA CTM 030: Oct 1997 &USEPA CTM 034: Sep 1999 | S |
| Environment. Health protection. Safety | Stack Emissions | Oxides of Nitrogen (NOX) / 0-1000 ppm | USEPA CTM 030: Oct 1997 &USEPA CTM 034: Sep 1999 | S |
| Environment. Health protection. Safety | Stack Emissions | Oxygen (O ₂) / 0-21 % | USEPA CTM 030: Oct 1997 &USEPA CTM 034: Sep 1999 | S |
| Environment. Health protection. Safety | Stack Emissions | Temperature / 1000 °C | USEPA CTM 30: Oct 1997, USEPA CTM 34: Sep 1999, In-house procedure ESOP- 009 Rev0 dated 1.12.2017 | S |

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|--|-----------------|--|---|---|
| Environment. Health protection. Safety | Stack Emissions | Sulphur Dioxide (SO ₂) / 0-1000 ppm | USEPA CTM 30: Oct 1997, USEPA CTM 34: Sep 1999, In-house procedure ESOP- 009 Rev0 dated 1.12.2017 | S |
| Environment. Health protection. Safety | Stack Emissions | Hydrogen Sulphide (H ₂ S) / 0-500 ppm | USEPA CTM 30: Oct 1997, USEPA CTM 34: Sep 1999, In-house procedure ESOP- 009 Rev0 dated 1.12.2017 | S |
| Environment. Health protection. Safety | Stack Emissions | Hydro carbons (C _x H _y) / 0-5000 ppm | USEPA CTM 30: Oct 1997, USEPA CTM 34: Sep 1999, In-house procedure ESOP- 009 Rev0 dated 1.12.2017 | S |
| Construction materials and building | Building Blocks | Determination of Solar Reflectance Near Ambient Temperature Using a Portable Solar Reflectometer | ASTM C1549-16(2022) | P |
| Construction materials and building | Building Blocks | Determination of Emittance of Materials Near Room Temperature Using Portable Emisometers | ASTM C1371-15(2022) | P |

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|-------------------------------------|-----------------|---|---------------------|---|
| Construction materials and building | Building Blocks | Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low- Sloped Opaque Surfaces | ASTM E1980-11(2019) | P |
| END | | | | |

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