



0015PRD/001/CSACI

Allegato CSACI al Certificato di Accreditamento 0015PRD
Annex CSACI to the Accreditation Certificate 0015PRD

RILASCIATO A
ISSUED TO **SGS Italia S.p.A.**

REVISIONE
REVISION **001**

DATA DI REVISIONE
REVIEW DATE **24-03-2023**

DATA DI SCADENZA
EXPIRY DATE **19-04-2024**

Certificazione di prodotti nei seguenti settori:

Verifica e Convalida delle dichiarazioni ambientali di prodotto in accordo a UNI CEI EN ISO/IEC 17065:2012 e UNI EN ISO 14025:2010

Schema internazionale EPD® in conformità al General Programme Instructions for EPD:

per le seguenti tipologie di verifica di EPD:

- External verification of EPDs including:
 - EPD for single products
 - EPD for sectors
 - EPD for single issue
 - EPD for pre certification
- EPD Process certification

per le seguenti categorie:

- Food & agricultural products
 - UN CPC 01 - Products of agriculture, horticulture and market gardening
 - UN CPC 02 - Live animals and animal products (excluding meat)
 - UN CPC 03 - Forestry and logging products
 - UN CPC 04 - Fish and other fishing products
 - UN CPC 21 - Meat, fish, fruit, vegetables, oils and fats
 - UN CPC 22 - Dairy products and egg products
 - UN CPC 23 - Grain mill products, starches and starch products; other food products
 - UN CPC 24 - Beverages
 - UN CPC 25 - Tobacco products
- Construction products
 - PCR compliant with EN 15804 and PCR not compliant with EN 15804
- Constructions & infrastructure
 - UN CPC 53 - Constructions
 - UN CPC 54 - Construction works
- Machinery & equipment
 - UN CPC 43 - General-purpose machinery
 - UN CPC 44 - Special-purpose machinery
 - UN CPC 45 - Office, accounting and computing machinery
 - UN CPC 46 - Electrical machinery and apparatus
 - UN CPC 47 - Radio, television and communication equipment and apparatus
 - UN CPC 48 - Medical appliances, precision and optical instruments, watches and clocks
- Textile & leather products
 - UN CPC 26 - Yarn and thread; woven and tufted textile fabrics
 - UN CPC 27 - Textile articles other than apparel
 - UN CPC 28 - Knitted or crocheted fabrics; wearing apparel



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REVISION **001**

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DATA DI SCADENZA
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- UN CPC 29 – Leather and leather products; footwear
- Wood & paper products (non-construction)
 - UN CPC 31 – Products of wood, cork, straw and plaiting materials
 - UN CPC 32 – Pulp, paper and paper products; printed matter and related articles
- Fuels & chemical products (non-construction)
 - UN CPC 11 – Coal and lignite; peat
 - UN CPC 12 – Crude petroleum and natural gas
 - UN CPC 13 – Uranium and thorium ores and concentrates
 - UN CPC 33 – Coke oven products; refined petroleum products; nuclear fuel
 - UN CPC 34 – Basic chemicals
 - UN CPC 35 – Other chemical products; man-made fibres
- Glass and plastic products (non-construction)
 - UN CPC 36 – Rubber and plastics products
 - UN CPC 37 – Glass and glass products and other non-metallic products n.e.c.
- Metal products (non-construction)
 - UN CPC 41 – Basic metals
 - UN CPC 42 – Fabricated metal products, except machinery and equipment
- Services
 - UN CPC 18 – Natural water
 - UN CPC 39 – Wastes or scraps
 - UN CPC 61 – Wholesale trade services
 - UN CPC 62 – Retail trade services
 - UN CPC 63 – Accommodation, food and beverage services
 - UN CPC 64 – Passenger transport services
 - UN CPC 65 – Freight transport services
 - UN CPC 66 – Rental services or transport vehicles with operators
 - UN CPC 67 – Supporting transport services
 - UN CPC 68 – Postal and courier services
 - UN CPC 71 – Financial and related services
 - UN CPC 72 – Real estate services
 - UN CPC 73 – Leasing or rental services without operator
 - UN CPC 81 – Research and development services
 - UN CPC 82 – Legal and accounting services
 - UN CPC 83 – Other professional, technical and business services
 - UN CPC 84 – Telecommunications, broadcasting and information supply services
 - UN CPC 85 – Support services
 - UN CPC 86 – Support services to agriculture, hunting, forestry, fishing, mining and utilities
 - UN CPC 87 – Maintenance, repair and installation (except constructions) services
 - UN CPC 88 – Manufacturing services on physical inputs owned by others
 - UN CPC 89 – Other manufacturing services; publishing, printing and reproduction services; materials recovery services
 - UN CPC 91 – Public administration and other services provided to the community as a whole; compulsory social security services
 - UN CPC 92 – Education services
 - UN CPC 93 – Human health and social care services



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DATA DI REVISIONE **24-03-2023**
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DATA DI SCADENZA **19-04-2024**
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- UN CPC 94 - Sewage and waste collection, treatment and disposal and other environmental protection services
- UN CPC 95 - Services of membership organizations
- UN CPC 96 - Recreational, cultural and sporting services
- UN CPC 97 - Other services
- UN CPC 98 - Domestic services
- UN CPC 99 - Services provided by extraterritorial organizations and bodies

Schema EPDItaly® in conformità al Regolamento del Programma EPDItaly:

per le seguenti tipologie di verifica di EPDItaly:

- EPD preliminary validation
- EPD di prodotto

per le seguenti categorie:

- Food & agricultural products
 - UN CPC 01 - Products of agriculture, horticulture and market gardening
 - UN CPC 02 - Live animals and animal products (excluding meat)
 - UN CPC 03 - Forestry and logging products
 - UN CPC 04 - Fish and other fishing products
 - UN CPC 21 - Meat, fish, fruit, vegetables, oils and fats
 - UN CPC 22 - Dairy products and egg products
 - UN CPC 23 - Grain mill products, starches and starch products; other food products
 - UN CPC 24 - Beverages
 - UN CPC 25 - Tobacco products
- Construction products
 - PCR ICMQ 001/15 – Constructions products and services compliant with EN 1580
- Constructions & infrastructure
 - UN CPC 53 - Constructions
 - UN CPC 54 - Construction works
- Machinery & equipment
 - UN CPC 43 - General-purpose machinery
 - UN CPC 44 - Special-purpose machinery
 - UN CPC 45 - Office, accounting and computing machinery
 - UN CPC 46 - Electrical machinery and apparatus
 - UN CPC 47 - Radio, television and communication equipment and apparatus
 - UN CPC 48 - Medical appliances, precision and optical instruments, watches and clocks
- Textile & leather products
 - UN CPC 26 - Yarn and thread; woven and tufted textile fabrics
 - UN CPC 27 - Textile articles other than apparel
 - UN CPC 28 - Knitted or crocheted fabrics; wearing apparel
 - UN CPC 29 - Leather and leather products; footwear
- Wood & paper products (non-construction)



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Annex CSACI to the Accreditation Certificate 0015PRD

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REVISIONE **001**
REVISION

DATA DI REVISIONE **24-03-2023**
REVIEW DATE

DATA DI SCADENZA **19-04-2024**
EXPIRY DATE

- UN CPC 31 – Products of wood, cork, straw and plaiting materials
- UN CPC 32 – Pulp, paper and paper products; printed matter and related articles
- Fuels & chemical products (non-construction)
 - UN CPC 11 – Coal and lignite; peat
 - UN CPC 12 – Crude petroleum and natural gas
 - UN CPC 13 – Uranium and thorium ores and concentrates
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 - UN CPC 18 – Natural water
 - UN CPC 39 – Wastes or scraps
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 - UN CPC 82 – Legal and accounting services
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 - UN CPC 84 – Telecommunications, broadcasting and information supply services
 - UN CPC 85 – Support services
 - UN CPC 86 – Support services to agriculture, hunting, forestry, fishing, mining and utilities
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 - UN CPC 89 – Other manufacturing services; publishing, printing and reproduction services; materials recovery services
 - UN CPC 91 – Public administration and other services provided to the community as a whole; compulsory social security services
 - UN CPC 92 – Education services
 - UN CPC 93 – Human health and social care services
 - UN CPC 94 – Sewage and waste collection, treatment and disposal and other environmental protection services
 - UN CPC 95 – Services of membership organizations
 - UN CPC 96 – Recreational, cultural and sporting services



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RILASCIATO A **SGS Italia S.p.A.**
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REVISIONE **001**
REVISION

DATA DI REVISIONE **24-03-2023**
REVIEW DATE

DATA DI SCADENZA **19-04-2024**
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- UN CPC 97 - Other services
- UN CPC 98 - Domestic services
- UN CPC 99 - Services provided by extraterritorial organizations and bodies

Apparecchiature e componenti elettrici

- APPARECCHIATURA DI MANOVRA
Switchgear and Controlgear

Apparecchiatura di manovra e di comando ad alta tensione
High-voltage switchgear and controlgear

IEC 62271-1:2017 High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear

Interruttori c.a. > 1000V

Alternating-current circuit-breakers > 1000V

IEC 62271-100:2008+AMD1:2012+AMD2:2017 CSV High-voltage switchgear and controlgear - Part 100:

Alternating-current circuit-breakers

IEC 62271-101:2012+AMD1:2017 CSV High-voltage switchgear and controlgear - Part 101: Synthetic testing

Interruttori di manovra sezionatori c.a. > 1000V

Switches for rated voltages > 1000V

IEC 62271-103:2011/COR1:2013 High-voltage switchgear and controlgear - Part 103: Switches for rated voltages above 1 kV up to and including 52 kV

IEC 62271-104:2015 High-voltage switchgear and controlgear - Part 104: Alternating current switches for rated voltages higher than 52 kV

Sezionatori e sezionatori di terra c.a. > 1000V

Alternating current disconnectors and earthing switches > 1000V

IEC 62271-102:2018 High-voltage switchgear and controlgear - Part 102: Alternating current disconnectors and earthing switches

Combinati sezionatore-fusibile ed interruttore-fusibile c.a. > 1000V

Alternating current switch-fuse combinations > 1000V

IEC 62271-105:2012 High-voltage switchgear and controlgear - Part 105: Alternating current switch-fuse combinations for rated voltages above 1 kV up to and including 52 kV

Contattori c.a. > 1000V

Alternating current contactors > 1000V

IEC 62271-106:2011/COR1:2014 High-voltage switchgear and controlgear - Part 106: Alternating current contactors

Interruttori automatici BT

LV Circuit-breakers

IEC 60947-2:2016/AMD1:2019 RLV Low-voltage switchgear and controlgear - Part 2: Circuit-breakers

Dispositivi elettromeccanici per circuiti di comando

Measuring relays, protection equipment and Automatic electrical controls

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REVISION **001**

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EC 60255-1:2009 Measuring relays and protection equipment - Part 1: Common requirements
IEC 60255-12:1980 Electrical relays - Part 12: Directional relays and power relays with two input energizing quantities
IEC 60255-13:1980 Electrical relays - Part 13: Biased (percentage) differential relays
IEC 60255-21-1:1988 Electrical relays - Part 21: Vibration, shock, bump and seismic tests on measuring relays and protection equipment - Section One: Vibration tests (sinusoidal)
IEC 60255-21-2:1988 Electrical relays - Part 21: Vibration, shock, bump and seismic tests on measuring relays and protection equipment - Section Two: Shock and bump tests
IEC 60255-21-3:1993 Electrical relays - Part 21: Vibration, shock, bump and seismic tests on measuring relays and protection equipment - Section 3: Seismic tests
IEC 60255-24:2013 Measuring relays and protection equipment - Part 24: Common format for transient data exchange (COMTRADE) for power systems
IEC 60255-26:2013 Measuring relays and protection equipment - Part 26: Electromagnetic compatibility requirements
IEC 60255-27:2013 Measuring relays and protection equipment - Part 27: Product safety requirements
IEC 60255-121:2014 Measuring relays and protection equipment - Part 121: Functional requirements for distance protection
IEC 60255-127:2010 Measuring relays and protection equipment - Part 127: Functional requirements for over/under voltage protection
IEC 60255-149:2013 Measuring relays and protection equipment - Part 149: Functional requirements for thermal electrical relays
IEC 60255-151:2009 Measuring relays and protection equipment - Part 151: Functional requirements for over/under current protection
IEC/IEEE 60255-118-1:2018 PRV Measuring relays and protection equipment - Part 118-1: Synchrophasor for power systems - Measurements
IEC 60730-1:2013+AMD1:2015 CSV Automatic electrical controls - Part 1: General requirements
IEC 60730-2-3:2006 Automatic electrical controls for household and similar use - Part 2-3: Particular requirements for thermal protectors for ballasts for tubular fluorescent lamps
IEC 60730-2-5:2013+AMD1:2017 CSV Automatic electrical controls - Part 2-5: Particular requirements for automatic electrical burner control systems
IEC 60730-2-6:2015/AMD1:2019 Automatic electrical controls - Part 2-6: Particular requirements for automatic electrical pressure sensing controls including mechanical requirements
IEC 60730-2-7:2015 Automatic electrical controls - Part 2-7: Particular requirements for timers and time switches
IEC 60730-2-8:2018 CSV Automatic electrical controls for household and similar use - Part 2-8: Particular requirements for electrically operated watervallves, including mechanical requirements
IEC 60730-2-9:2015+AMD1:2018 CSV Automatic electrical controls - Part 2-9: Particular requirements for temperature sensing control
IEC 60730-2-10:2006 Automatic electrical controls for household and similar use - Part 2-10: Particular requirements for motor-starting relays
IEC 60730-2-11:2006 Automatic electrical controls for household and similar use - Part 2-11: Particular requirements for energy regulators
IEC 60730-2-12:2015 Automatic electrical controls - Part 2-12: Particular requirements for electrically operated door locks
IEC 60730-2-13:2017/COR1:2018 Automatic electrical controls - Part 2-13: Particular requirements for humidity sensing controls
IEC 60730-2-14:2017/AMD1:2019 RLV Automatic electrical controls - Part 2-14: Particular requirements for electric actuators
IEC 60730-2-15:2017 Automatic electrical controls - Part 2-15: Particular requirements for automatic electrical air flow, water flow and water level sensing controls

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IEC 60730-2-22:2014 Automatic electrical controls - Part 2-22: Particular requirements for thermal motor protectors

IEC 61811-1:2015 Electromechanical telecom elementary relays of assessed quality - Part 1: Generic specification and blank detail specification

IEC 62246-1:2015 Reed switches - Part 1: Generic specification

IEC 61812-1:2011 Time relays for industrial and residential use - Part 1: Requirements and tests

IEC 62314:2006 Solid-state relays

Apparecchi di commutazione automatici

Transfer switching equipment

IEC 60947-6-1:2005+AMD1:2013 CSV Low-voltage switchgear and control gear - Part 6-1: Multiple function equipment - Transfer switching equipment

- FUSIBILI

Fuses

Limitatori c.a. > 1000V

High-voltage fuses

IEC 60282-1:2009+AMD1:2014 CSV High-voltage fuses - Part 1: Current-limiting fuses

Limitatori ad espulsione c.a. > 1000V

IEC 60282-2:2008 High-voltage fuses - Part 2: Expulsion fuses

Fusibili < 1000 V

Low voltage fuses < 1000 V

IEC 60269-1:2006+AMD1:2009+AMD2:2014 CSV Low-voltage fuses - Part 1: General requirements

IEC 60269-2:2013+AMD1:2016 CSV Low-voltage fuses - Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) - Examples of standardized systems of fuses A to K

IEC 60269-3:2010+AMD1:2013+AMD2:2019 CSV Low-voltage fuses - Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household or similar applications) - Examples of standardized systems of fuses A to F

IEC 60269-4:2009+AMD1:2012+AMD2:2016 CSV Low-voltage fuses - Part 4: Supplementary requirements for fuse-links for the protection of semiconductor devices

IEC 60269-6:2010/COR1:2010 Low-voltage fuses - Part 6: Supplementary requirements for fuse-links for the protection of solar photovoltaic energy systems

IEC TR 60269-5:2014 Low-voltage fuses - Part 5: Guidance for the application of low-voltage fuses

IEC 60127-7:2015 Miniature fuses - Part 7: Miniature fuse-links for special applications

IEC 60127-1:2006+AMD1:2011+AMD2:2015 CSV Miniature fuses - Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links

IEC 60127-2:2014 Miniature fuses - Part 2: Cartridge fuse-links

IEC 60127-3:2015 Miniature fuses - Part 3: Sub-miniature fuse-links

IEC 60127-4:2005+AMD1:2008+AMD2:2012 CSV Miniature fuses - Part 4: Universal modular fuse-links (UMF) - Through-hole and surface mount types

IEC 60127-5:2016 Miniature fuses - Part 5: Guidelines for quality assessment of miniature fuse-links

IEC 60127-6:2014 Miniature fuses - Part 6: Fuse-holders for miniature fuse-links

IEC 60127-7:2015 Miniature fuses - Part 7: Miniature fuse-links for special applications

IEC 60127-8:2018 Miniature fuses - Part 8: Fuse resistors with particular overcurrent protection

IEC 60127-10:2001 Miniature fuses - Part 10: User guide for miniature fuses

- QUADRI - APPARECCHIATURE PREFABBRICATE

High-voltage switchgear and controlgear



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IEC 62271-200:2011/COR1:2015 High-voltage switchgear and controlgear - Part 200: AC metal-enclosed switchgear and control gear for rated voltages above 1 kV and up to and including 52 kV
IEC 62271-201:2014 High-voltage switchgear and controlgear - Part 201: AC solid-insulation enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV
IEC 62271-202:2014/COR1:2015 High-voltage switchgear and controlgear - Part 202: High-voltage/ low-voltage prefabricated substation
IEC 62271-203:2011/COR1:2013 High-voltage switchgear and controlgear - Part 203: Gas-insulated metal-enclosed switchgear for rated voltages above 52 kV
IEC 62271-205:2008 High-voltage switchgear and controlgear - Part 205: Compact switchgear assemblies for rated voltages above 52 kV
IEC TS 62271-304:2019 High-voltage switchgear and controlgear - Part 304: Design classes for indoor enclosed switchgear and controlgear for rated voltages above 1 kV up to and including 52 kV to be used in severe climatic conditions

Apparecchiature a bassa tensione

Low-voltage switchgear and controlgear

IEC 60947-6-1:2005+AMD1:2013 Low-voltage switchgear and controlgear - Part 6-1: Multiple function equipment - Transfer switching equipment

IEC 60947-2:2016/AMD1:2019 Low-voltage switchgear and controlgear - Part 2: Circuit-breakers

IEC 60947-3:2008+AMD1:2012+AMD2:2015 Low-voltage switchgear and controlgear - Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units

Apparecchiature assiemate di protezione e di manovra per bassa tensione (quadri BT)

Low-voltage switchgear and controlgear assemblies

IEC 61439-1:2011 Low-voltage switchgear and controlgear assemblies - Part 1: General rules

IEC 61439-2:2011 Low-voltage switchgear and controlgear assemblies - Part 2: Power switchgear and controlgear assemblies

- TRASFORMATORI DI MISURA

Instrument transformers

Trasformatori di corrente

Current transformers

IEC 61869-2:2012 Instrument transformers - Part 2: Additional requirements for current transformers

Trasformatori di tensione

Voltage transformers

IEC 61869-3:2011 Instrument transformers - Part 3: Additional requirements for inductive voltage transformers

IEC 61869-5:2011/COR1:2015 Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers

Trasformatori di misura a bassa potenza

Low-power instrument transformers

IEC 61869-10:2017 Instrument transformers - Part 10: Additional requirements for low-power passive current transformers

IEC 61869-11:2017 Instrument transformers - Part 11: Additional requirements for low power passive voltage transformers

IEC 61869-9:2016 Instrument transformers - Part 9: Digital interface for instrument transformers



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- TRASFORMATORI DI POTENZA IN OLIO E A SECCO
Oil and Dry Power transformers

Trasformatori di potenza in olio e a secco

Oil and Dry Power transformers

IEC 60076-1:2011 Power transformers - Part 1: General

IEC 60076-2:2011 Power transformers - Part 2: Temperature rise for liquid-immersed transformers

IEC 60076-3:2013+AMD1:2018 CSV Power transformers - Part 3: Insulation levels, dielectric tests and external clearances in air

IEC 60076-4:2002 Power transformers - Part 4: Guide to the lightning impulse and switching impulse testing - Power transformers and reactors

IEC 60076-5:2006 Power transformers - Part 5: Ability to withstand short circuit

IEC 60076-10:2016 Power transformers - Part 10: Determination of sound levels

IEC 60076-10-1:2016 Power transformers - Part 10-1: Determination of sound levels - Application guide

IEC 60076-11:2018 Power transformers - Part 11: Dry-type transformers

IEC 60076-13:2006 Power transformers - Part 13: Self-protected liquid-filled transformers

- COMPONENTI DI STAZIONE
Electrical Station Equipment

Reattori

Reactors

IEC 60076-6:2007 Power transformers - Part 6: Reactors

Bobine di sbarramento

Line traps for a.c. power systems

IEC 60353:1989/AMD1:2002 Line traps for a.c. power systems

Scaricatori

Surge arresters

IEC 60099-4:2014 Surge arresters - Part 4: Metal-oxide surge arresters without gaps for a.c. systems

IEC 60099-5:2018 RLV Surge arresters - Part 5: Selection and application recommendations

Condensatori

Shunt capacitors

IEC 60871-1:2014 Shunt capacitors for a.c. power systems having a rated voltage above 1 000 V - Part 1: General

IEC 60871-4:2014 Shunt capacitors for AC power systems having a rated voltage above 1 000 V - Part 4: Internal fuses

Isolatori

Insulators for overhead lines

IEC 60383-1:1993 Insulators for overhead lines with a nominal voltage above 1000 V - Part 1: Ceramic or glass insulator units for a.c. systems - Definitions, test methods and acceptance criteria

IEC 60383-2:1993 Insulators for overhead lines with a nominal voltage above 1000 V - Part 2: Insulator strings and insulator sets for a.c. systems - Definitions, test methods and acceptance criteria

IEC 61109:2008 Insulators for overhead lines - Composite suspension and tension insulators for a.c. systems with a nominal voltage greater than 1 000 V - Definitions, test methods and acceptance criteria 61466-1

IEC 61466-2:1998+AMD1:2002+AMD2:2018 CSV Composite string insulator units for overhead lines with a nominal voltage greater than 1 000 V - Part 2: Dimensional and electrical characteristics

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IEC 61952:2008 Insulators for overhead lines - Composite line post insulators for A.C. systems with a nominal voltage greater than 1 000 V - Definitions, test methods and acceptance criteria
IEC 62231:2006 Composite station post insulators for substations with a.c. voltages greater than 1 000 V up to 245 kV - Definitions, test methods and acceptance criteria
IEC 62231-1:2015 Composite station post insulators for substations with AC voltages greater than 1 000 V up to 245 kV - Part 1: Dimensional, mechanical and electrical characteristics
IEC 60273:1990 - Characteristic of indoor and outdoor post insulators for systems with nominal voltages greater than 1000 V
IEC 60168:1994+AMD1:1997+AMD2:2000 - Tests on indoor and outdoor post insulators of ceramic material or glass for systems with nominal voltages greater than 1000 V

Batterie

Acid batteries

CEI EN 60896-22:2005 Stationary lead-acid batteries - Part 22: Valve regulated types - Requirements

Gruppi elettrogeni per alimentazione d'emergenza

IEC 60034-22:2009 Rotating electrical machines - Part 22: AC generators for reciprocating internal combustion (RIC) engine driven generating sets

- CAVI/CONDUTTORI E ACCESSORI
Cables/Conductor and accessories

Cavi e accessori

Cables and accessories

IEC 60502-1:2004+AMD1:2009 CSV Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) - Part 1: Cables for rated voltages of 1 kV (Um = 1,2 kV) and 3 kV (Um = 3,6 kV)

IEC 60502-2:2014 RLV Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) - Part 2: Cables for rated voltages from 6 kV (Um = 7,2 kV) up to 30 kV (Um = 36 kV) 60840

IEC 62067:2011 RLV Power cables with extruded insulation and their accessories for rated voltages above 150 kV (Um = 170 kV) up to 500 kV (Um = 550 kV) - Test methods and requirements

IEC 60332:2019 SER Tests on electric and optical fibre cables under fire conditions - ALL PARTS

IEC 60332-1-1:2004+AMD1:2015 CSV Tests on electric and optical fibre cables under fire conditions - Part 1-1: Test for vertical flame propagation for a single insulated wire or cable - Apparatus

IEC 60332-1-2:2004+AMD1:2015 CSV Tests on electric and optical fibre cables under fire conditions - Part 1-2: Test for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW pre-mixed flame

IEC 60332-1-3:2004+AMD1:2015 CSV Tests on electric and optical fibre cables under fire conditions - Part 1-3: Test for vertical flame propagation for a single insulated wire or cable - Procedure for determination of flaming droplets/particles

IEC 60332-2-1:2004 Tests on electric and optical fibre cables under fire conditions - Part 2-1: Test for vertical flame propagation for a single small insulated wire or cable - Apparatus

IEC 60332-2-2:2004 Tests on electric and optical fibre cables under fire conditions - Part 2-2: Test for vertical flame propagation for a single small insulated wire or cable - Procedure for diffusion flame

IEC 60332-3-10:2018 RLV Tests on electric and optical fibre cables under fire conditions - Part 3-10: Test for vertical flame spread of vertically-mounted bunched wires or cables - Apparatus

IEC 60332-3-21:2018 RLV Tests on electric and optical fibre cables under fire conditions - Part 3-21: Test for vertical flame spread of vertically-mounted bunched wires or cables - Category A F/R

IEC 60332-3-22:2018 RLV Tests on electric cables under fire conditions - Part 3-22: Test for vertical flame spread of vertically-mounted bunched wires or cables - Category A

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Allegato CSACI al Certificato di Accreditamento 0015PRD
Annex CSACI to the Accreditation Certificate 0015PRD

RILASCIATO A
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REVISIONE
REVISION **001**

DATA DI REVISIONE
REVIEW DATE **24-03-2023**

DATA DI SCADENZA
EXPIRY DATE **19-04-2024**

IEC 60332-3-23:2018 RLV Tests on electric and optical fibre cables under fire conditions - Part 3-23: Test for vertical flame spread of vertically-mounted bunched wires or cables - Category BIEC 60332-3

IEC 60332-3-24:2018 RLV Tests on electric and optical fibre cables under fire conditions - Part 3-24: Test for vertical flame spread of vertically-mounted bunched wires or cables - Category C

IEC 60332-3-24:2018 Tests on electric and optical fibre cables under fire conditions - Part 3-24: Test for vertical flame spread of vertically-mounted bunched wires or cables - Category C

IEC 60332-3-25:2018 RLV Tests on electric and optical fibre cables under fire conditions - Part 3-25: Test for vertical flame spread of vertically-mounted bunched wires or cables - Category D

Morsetti per conduttori in rame

Terminal blocks for copper conductors

IEC 60947-7-1:2009 Low-voltage switchgear and controlgear - Part 7-1: Ancillary equipment - Terminal blocks for copper conductors

IEC 60947-7-2:2009 Low-voltage switchgear and controlgear - Part 7-2: Ancillary equipment - Protective conductor terminal blocks for copper conductors

IEC 61210:2010 Connecting devices - Flat quick-connect terminations for electrical copper conductors - Safety requirements

Fibra ottica

Optical fibre and cable

Recommendation ITU-T G.652 Characteristics of a single-mode optical fibre and cable - ed. 2009

IEC 60794-4:2018 Optical fibre cables - Part 4: Sectional specification - Aerial optical cables along electrical power lines

Conduttori

Conductors

CEI 7-2:1997 - "Conduttori di alluminio, alluminio-acciaio, lega d'alluminio e lega di alluminio - acciaio per linee elettriche aeree"

EN 50182:2002 - Conductors for overhead lines. Round wire concentric lay stranded conductors;

EN 60889:1997 - Hard drawn aluminium wire for overhead line conductors

EN 50189:2000 - CONDUCTORS FOR OVERHEAD LINES - ZINC COATED STEEL WIRES

Saldatura e brasatura

- Serie UNI EN ISO 3834 Requisiti di qualità per la saldatura per fusione dei materiali metallici. Parte 2:2021, parte 3:2021, parte 4:2021.

- UNI EN ISO 15607:2020 Specificazione e qualificazione delle procedure di saldatura per materiali metallici - Regole generali

- UNI EN ISO 15609 Specificazione e qualificazione delle procedure di saldatura per materiali metallici - Specificazione della procedura di saldatura. Parte 1:2019, parte 2:2019, parte 3:2006, parte 4:2009, parte 5:2012, 6:2013

- UNI EN ISO 15610:2005 Specificazione e qualificazione delle procedure di saldatura per materiali metallici - Qualificazione sulla base di materiali d'apporto sottoposti a prove

- UNI EN ISO 15611:2005 Specificazione e qualificazione delle procedure di saldatura per materiali metallici - Qualificazione sulla base dell'esperienza di saldatura acquisita



Allegato CSACI al Certificato di Accreditamento 0015PRD
Annex CSACI to the Accreditation Certificate 0015PRD

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REVISIONE
REVISION **001**

DATA DI REVISIONE
REVIEW DATE **24-03-2023**

DATA DI SCADENZA
EXPIRY DATE **19-04-2024**

- UNI EN ISO 15612:2018 Specificazione e qualificazione delle procedure di saldatura per materiali metallici - Qualificazione mediante adozione di procedure di saldatura unificate
- UNI EN ISO 14555:2017 Saldatura - Saldatura ad arco dei prigionieri di materiali metallici
- UNI EN ISO 15613:2005 Specificazione e qualificazione delle procedure di saldatura per materiali metallici - Qualificazione sulla base di prove di saldatura di pre-produzione
- Serie UNI EN ISO 15614 Specifica e qualificazione delle procedure di saldatura per materiali metallici. Parte 1:2019, parte 2:2006, parte 3:2008, parte 4:2006, parte 5:2005, parte 6:2007, parte 7:2016, parte 8:2016, parte 10:2006, parte 11:2003, parte 12:2014, parte 13:2012, parte 14:2013
- Serie UNI EN ISO 17660 Saldatura degli acciai d'armatura. Parte 1:2007, parte 2:2007
- UNI EN 13134:2002 Brasatura forte - Qualificazione della procedura.
- ASME BPVC Section IX-Welding, Brazing, and Fusing Qualifications – Ed. 2019
- ASME B16.25-2017
- AWS D1.1/D1.1M:2015 (2nd Printing) Structural Welding Code-Steel
- AWS D1.3/D1.3M:2018 (Historical) Structural Welding Code-Sheet Steel
- AWS D1.6/D1.6M:2017 Structural Welding Code – Stainless Steel

Tecnica ferroviaria

- UNI EN 15085-2:2020 Saldatura dei veicoli ferroviari e dei relativi componenti - Requisiti del costruttore (certificazione stand alone)
- Linee Guida ANSF rev.1 del 26.6.2019 per il riconoscimento degli Organismi di Certificazione delle aziende che operano nel settore della saldatura dei veicoli ferroviari o parti di essi in conformità alle norme della serie UNI EN 15085
- Linee guida ANSFISA rev. 2 del 22.12.2021 per la certificazione delle Organizzazioni che operano nel settore della saldatura dei veicoli ferroviari o parti di essi in conformità alle norme della serie UNI EN 15085

Società che forniscono servizi energetici (ESCO) in accordo a UNI CEI 11352:2014, Decreto legislativo 4 Luglio 2014 n.102, Decreto interdirettoriale del Ministero dello sviluppo economico e del Ministero dell'ambiente e della tutela del territorio e del mare del 12 maggio 2015

Certificazione delle imprese che svolgono le attività di installazione, riparazione, manutenzione, assistenza o smantellamento, di apparecchiature fisse di refrigerazione, condizionamento d'aria e pompe di calore fisse contenenti gas fluorurati a effetto serra in base alle disposizioni di cui al regolamento di esecuzione (UE) 2015/2067 ai sensi di:

- Decreto del Presidente della Repubblica del 16 novembre 2018, n. 146 "Regolamento di esecuzione del regolamento (UE) n.517/2014 sui gas fluorurati a effetto serra e che abroga il regolamento (CE) n. 842/2006";
- Schema di accreditamento degli organismi di valutazione della conformità per il rilascio delle certificazioni alle imprese che svolgono le attività di cui al regolamento (CE) n. 304/2008 e al regolamento di esecuzione (UE) 2015/2067 e predisposto ai sensi dell'art. 4, comma 1, del Decreto del Presidente della Repubblica 16 novembre 2018, n. 146.

Allegato CSACI al Certificato di Accreditamento 0015PRD
Annex CSACI to the Accreditation Certificate 0015PRD

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REVISIONE
REVISION **001**

DATA DI REVISIONE
REVIEW DATE **24-03-2023**

DATA DI SCADENZA
EXPIRY DATE **19-04-2024**

Certificazione delle imprese che svolgono le attività di installazione, riparazione, manutenzione, assistenza o smantellamento, di apparecchiature di protezione antincendio contenenti gas fluorurati a effetto serra in base alle disposizioni di cui al Regolamento (CE) n. 304/2008 ai sensi di:

- Decreto del Presidente della Repubblica del 16 novembre 2018, n. 146 "Regolamento di esecuzione del regolamento (UE) n.517/2014 sui gas fluorurati a effetto serra e che abroga il regolamento (CE) n. 842/2006";
- Schema di accreditamento degli organismi di valutazione della conformità per il rilascio delle certificazioni alle imprese che svolgono le attività di cui al regolamento (CE) n. 304/2008 e al regolamento di esecuzione (UE) 2015/2067 e predisposto ai sensi dell'art. 4, comma 1, del Decreto del Presidente della Repubblica 16 novembre 2018, n. 146.

Schema di certificazione per materie prime seconde e prodotti a base di plastica riciclata:

- Plastica Seconda Vita Ed. 1 Rev. 3 del 09/2018.
- Plastica Seconda Vita Ed. 2 Rev. 0 del 10/2021.

Verifica del contenuto di riciclato e/o recuperato e/o sottoprodotto, presente nei prodotti in conformità al seguente riferimento normativo:

- UNI/PdR 88:2020

Sistema Nazionale di Certificazione della sostenibilità dei biocarburanti e dei bioliquidi per le categorie:

- Produzione agricola;
- Produzione di rifiuti, sottoprodotti e reflui zootecnici;
- Prodotti intermedi e finiti da spremitura e raffinazione;
- Produzione di biocarburanti e bioliquidi;
- Recupero di rifiuti e rigenerazione oli usati;
- Attività di commercializzazione e stoccaggio
- Produzione di Biometano;
- Produzione di Biogas.

Servizi di gestione e controllo delle infestazioni (Pest Management) ai sensi della norma UNI EN 16636:2015



0015PRD/001/CSACI

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Annex CSACI to the Accreditation Certificate 0015PRD

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ISSUED TO **SGS Italia S.p.A.**

REVISIONE
REVISION **001**

DATA DI REVISIONE
REVIEW DATE **24-03-2023**

DATA DI SCADENZA
EXPIRY DATE **19-04-2024**

Certification of products within the following sectors:

Evaluation and validation of environmental product declaration in accordance with EN/ISO/IEC 17065:2012 and EN ISO 14025:2010

International EPD® System in conformity with the General Programme Instructions for EPD:

for the following types of EPD verifications:

- External verification of EPDs including:
 - EPD for single products
 - EPD for sectors
 - EPD for single issue
 - EPD for pre certification
- EPD Process certification

for the following categories:

- Food & agricultural products
 - UN CPC 01 - Products of agriculture, horticulture and market gardening
 - UN CPC 02 - Live animals and animal products (excluding meat)
 - UN CPC 03 - Forestry and logging products
 - UN CPC 04 - Fish and other fishing products
 - UN CPC 21 - Meat, fish, fruit, vegetables, oils and fats
 - UN CPC 22 - Dairy products and egg products
 - UN CPC 23 - Grain mill products, starches and starch products; other food products
 - UN CPC 24 - Beverages
 - UN CPC 25 - Tobacco products
- Construction products
 - PCR compliant with EN 15804 and PCR not compliant with EN 15804
- Constructions & infrastructure
 - UN CPC 53 - Constructions
 - UN CPC 54 - Construction works
- Machinery & equipment
 - UN CPC 43 - General-purpose machinery
 - UN CPC 44 - Special-purpose machinery
 - UN CPC 45 - Office, accounting and computing machinery
 - UN CPC 46 - Electrical machinery and apparatus
 - UN CPC 47 - Radio, television and communication equipment and apparatus
 - UN CPC 48 - Medical appliances, precision and optical instruments, watches and clocks
- Textile & leather products
 - UN CPC 26 - Yarn and thread; woven and tufted textile fabrics
 - UN CPC 27 - Textile articles other than apparel
 - UN CPC 28 - Knitted or crocheted fabrics; wearing apparel



0015PRD/001/CSACI

Allegato CSACI al Certificato di Accreditamento 0015PRD
Annex CSACI to the Accreditation Certificate 0015PRD

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REVISIONE
REVISION **001**

DATA DI REVISIONE
REVIEW DATE **24-03-2023**

DATA DI SCADENZA
EXPIRY DATE **19-04-2024**

- UN CPC 29 – Leather and leather products; footwear
- Wood & paper products (non-construction)
 - UN CPC 31 – Products of wood, cork, straw and plaiting materials
 - UN CPC 32 – Pulp, paper and paper products; printed matter and related articles
- Fuels & chemical products (non-construction)
 - UN CPC 11 – Coal and lignite; peat
 - UN CPC 12 – Crude petroleum and natural gas
 - UN CPC 13 – Uranium and thorium ores and concentrates
 - UN CPC 33 – Coke oven products; refined petroleum products; nuclear fuel
 - UN CPC 34 – Basic chemicals
 - UN CPC 35 – Other chemical products; man-made fibres
- Glass and plastic products (non-construction)
 - UN CPC 36 – Rubber and plastics products
 - UN CPC 37 – Glass and glass products and other non-metallic products n.e.c.
- Metal products (non-construction)
 - UN CPC 41 – Basic metals
 - UN CPC 42 – Fabricated metal products, except machinery and equipment
- Services
 - UN CPC 18 – Natural water
 - UN CPC 39 – Wastes or scraps
 - UN CPC 61 – Wholesale trade services
 - UN CPC 62 – Retail trade services
 - UN CPC 63 – Accommodation, food and beverage services
 - UN CPC 64 – Passenger transport services
 - UN CPC 65 – Freight transport services
 - UN CPC 66 – Rental services or transport vehicles with operators
 - UN CPC 67 – Supporting transport services
 - UN CPC 68 – Postal and courier services
 - UN CPC 71 – Financial and related services
 - UN CPC 72 – Real estate services
 - UN CPC 73 – Leasing or rental services without operator
 - UN CPC 81 – Research and development services
 - UN CPC 82 – Legal and accounting services
 - UN CPC 83 – Other professional, technical and business services
 - UN CPC 84 – Telecommunications, broadcasting and information supply services
 - UN CPC 85 – Support services
 - UN CPC 86 – Support services to agriculture, hunting, forestry, fishing, mining and utilities
 - UN CPC 87 – Maintenance, repair and installation (except constructions) services
 - UN CPC 88 – Manufacturing services on physical inputs owned by others
 - UN CPC 89 – Other manufacturing services; publishing, printing and reproduction services; materials recovery services
 - UN CPC 91 – Public administration and other services provided to the community as a whole; compulsory social security services
 - UN CPC 92 – Education services
 - UN CPC 93 – Human health and social care services



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Annex CSACI to the Accreditation Certificate 0015PRD

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REVISIONE
REVISION **001**

DATA DI REVISIONE
REVIEW DATE **24-03-2023**

DATA DI SCADENZA
EXPIRY DATE **19-04-2024**

- UN CPC 94 - Sewage and waste collection, treatment and disposal and other environmental protection services
- UN CPC 95 - Services of membership organizations
- UN CPC 96 - Recreational, cultural and sporting services
- UN CPC 97 - Other services
- UN CPC 98 - Domestic services
- UN CPC 99 - Services provided by extraterritorial organizations and bodies

EPDItaly® scheme in conformity with the EPDItaly Regulation Programme:

for the following types of EPDItaly verifications:

- EPD preliminary validation
- EPD for single products

for the following categories:

- Food & agricultural products
 - UN CPC 01 - Products of agriculture, horticulture and market gardening
 - UN CPC 02 - Live animals and animal products (excluding meat)
 - UN CPC 03 - Forestry and logging products
 - UN CPC 04 - Fish and other fishing products
 - UN CPC 21 - Meat, fish, fruit, vegetables, oils and fats
 - UN CPC 22 - Dairy products and egg products
 - UN CPC 23 - Grain mill products, starches and starch products; other food products
 - UN CPC 24 - Beverages
 - UN CPC 25 - Tobacco products
- Construction products
 - PCR ICMQ 001/15 - Constructions products and services compliant with EN 1580
- Constructions & infrastructure
 - UN CPC 53 - Constructions
 - UN CPC 54 - Construction works
- Machinery & equipment
 - UN CPC 43 - General-purpose machinery
 - UN CPC 44 - Special-purpose machinery
 - UN CPC 45 - Office, accounting and computing machinery
 - UN CPC 46 - Electrical machinery and apparatus
 - UN CPC 47 - Radio, television and communication equipment and apparatus
 - UN CPC 48 - Medical appliances, precision and optical instruments, watches and clocks
- Textile & leather products
 - UN CPC 26 - Yarn and thread; woven and tufted textile fabrics
 - UN CPC 27 - Textile articles other than apparel
 - UN CPC 28 - Knitted or crocheted fabrics; wearing apparel
 - UN CPC 29 - Leather and leather products; footwear
- Wood & paper products (non-construction)



Allegato CSACI al Certificato di Accreditamento 0015PRD
Annex CSACI to the Accreditation Certificate 0015PRD

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REVISIONE
REVISION **001**

DATA DI REVISIONE
REVIEW DATE **24-03-2023**

DATA DI SCADENZA
EXPIRY DATE **19-04-2024**

- UN CPC 31 – Products of wood, cork, straw and plaiting materials
- UN CPC 32 – Pulp, paper and paper products; printed matter and related articles
- Fuels & chemical products (non-construction)
 - UN CPC 11 – Coal and lignite; peat
 - UN CPC 12 – Crude petroleum and natural gas
 - UN CPC 13 – Uranium and thorium ores and concentrates
 - UN CPC 33 – Coke oven products; refined petroleum products; nuclear fuel
 - UN CPC 34 – Basic chemicals
 - UN CPC 35 – Other chemical products; man-made fibres
- Glass and plastic products (non-construction)
 - UN CPC 36 – Rubber and plastics products
 - UN CPC 37 – Glass and glass products and other non-metallic products n.e.c.
- Metal products (non-construction)
 - UN CPC 41 – Basic metals
 - UN CPC 42 – Fabricated metal products, except machinery and equipment
- Services
 - UN CPC 18 – Natural water
 - UN CPC 39 – Wastes or scraps
 - UN CPC 61 – Wholesale trade services
 - UN CPC 62 – Retail trade services
 - UN CPC 63 – Accommodation, food and beverage services
 - UN CPC 64 – Passenger transport services
 - UN CPC 65 – Freight transport services
 - UN CPC 66 – Rental services or transport vehicles with operators
 - UN CPC 67 – Supporting transport services
 - UN CPC 68 – Postal and courier services
 - UN CPC 71 – Financial and related services
 - UN CPC 72 – Real estate services
 - UN CPC 73 – Leasing or rental services without operator
 - UN CPC 81 – Research and development services
 - UN CPC 82 – Legal and accounting services
 - UN CPC 83 – Other professional, technical and business services
 - UN CPC 84 – Telecommunications, broadcasting and information supply services
 - UN CPC 85 – Support services
 - UN CPC 86 – Support services to agriculture, hunting, forestry, fishing, mining and utilities
 - UN CPC 87 – Maintenance, repair and installation (except constructions) services
 - UN CPC 88 – Manufacturing services on physical inputs owned by others
 - UN CPC 89 – Other manufacturing services; publishing, printing and reproduction services; materials recovery services
 - UN CPC 91 – Public administration and other services provided to the community as a whole; compulsory social security services
 - UN CPC 92 – Education services
 - UN CPC 93 – Human health and social care services
 - UN CPC 94 – Sewage and waste collection, treatment and disposal and other environmental protection services
 - UN CPC 95 – Services of membership organizations
 - UN CPC 96 – Recreational, cultural and sporting services



Allegato CSACI al Certificato di Accreditamento 0015PRD
Annex CSACI to the Accreditation Certificate 0015PRD

RILASCIATO A
ISSUED TO **SGS Italia S.p.A.**

REVISIONE **001** DATA DI REVISIONE **24-03-2023** DATA DI SCADENZA **19-04-2024**
REVISION REVIEW DATE EXPIRY DATE

- UN CPC 97 - Other services
- UN CPC 98 - Domestic services
- UN CPC 99 - Services provided by extraterritorial organizations and bodies

Electrical Apparatuses and Components

- Switchgear and Controlgear
 - High-voltage switchgear and controlgear
 - Alternating-current circuit-breakers > 1000V
 - Switches for rated voltages > 1000V
 - Alternating current disconnectors and earthing switches . > 1000V
 - Alternating current switch-fuse combinations > 1000V
 - Alternating current contactors > 1000V
 - LV Circuit-breakers
 - Measuring relays, protection equipment and Automatic electrical controls
 - Transfer switching equipment
- Fuses
 - High-voltage fuses
 - Low voltage fuses < 1000 V
- High-voltage switchgear and controlgear
- Low-voltage switchgear and controlgear
- Low-voltage switchgear and controlgear assemblies
- Instrument transformers
 - Current transformers
 - Voltage transformers
 - Low-power instrument transformers
- Oil and Dry Power transformers
 - Oil and Dry Power transformers
- Electrical Station Equipment
 - Line traps for a.c. power systems
 - Surge arresters
 - Shunt capacitors
 - Insulators for overhead lines
 - Acid batteries
- Cables/Conductor and accessories
 - Cables and accessories
 - Terminal blocks for copper conductors
 - Optical fibre and cable
 - Conductors

Welding and Brazing:

- Series ISO 3834 Ed. 2021, part 2, 3, 4
- EN ISO 15607



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ISSUED TO **SGS Italia S.p.A.**

REVISIONE
REVISION **001**

DATA DI REVISIONE
REVIEW DATE **24-03-2023**

DATA DI SCADENZA
EXPIRY DATE **19-04-2024**

- EN ISO 15609
- EN ISO 15610
- EN ISO 15611
- EN ISO 15612
- EN ISO 15613
- Series UNI EN ISO 15614
- EN ISO 14555
- Series UNI EN ISO 17660
- EN 13134:2002
- ASME BPVC Section IX-Welding – Ed. 2017
- ASME B16.25-2017
- AWS D1.1/D1.1M, AWS D1.3/D1.3M, AWS D1.6/D1.6M

Railway technology:

- EN 15085-2:2020 (stand alone)
- ANSF Guidelines rev.1 of 26.6.2019
- ANSFISA Guidelines rev.2 of 22.12.2021

Energy Service Company according to UNI CEI 11352:2014, Law Decree n. 102 of 04.07.2014, Inter-directorial Decree of Ministry of Economic Development and Ministry for the Environment and the Protection of Land and Sea dated May 12, 2015

Certification of companies carrying out the installation, repair, maintenance, servicing or decommissioning as regards stationary refrigeration, air conditioning and heat pump equipment, containing fluorinated greenhouse gases pursuant of Commission Implementing Regulation (EU) 2015/2067 in compliance with:

- the Presidential Decree, n° 146 of 16 November 2018 (Implementing regulation of the Regulation (EU) No 517/2014 of the European Parliament and of the Council of 16 April 2014 on fluorinated greenhouse gases and repealing Regulation (EC) No 842/2006);
- the accreditation scheme of CABs providing certification to companies carrying out activities as per Commission Regulation (EC) n. 304/2008 and as per Commission Implementing Regulation (EU) 2015/2067, and drafted in compliance with art.4, clause 1, Presidential Decree, n° 146 of 16 November 2018.

Certification of companies carrying out the installation, repair, maintenance, servicing or decommissioning as regards fire protection systems containing fluorinated greenhouse gases pursuant of Commission Regulation (EC) n. 304/2008 in compliance with:

- the Presidential Decree, n° 146 of 16 November 2018 (Implementing regulation of the Regulation (EU) No 517/2014 of the European Parliament and of the Council of 16 April 2014 on fluorinated greenhouse gases and repealing Regulation (EC) No 842/2006);
- the accreditation scheme of CABs providing certification to companies carrying out activities as per Commission Regulation (EC) n. 304/2008 and as per Commission Implementing Regulation (EU) 2015/2067, and drafted in compliance with art.4, clause 1, Presidential Decree, n° 146 of 16 November 2018.

Certification Scheme for secondary raw materials and products by recycled plastic:

- Plastica Seconda Vita Ed. 1 Rev. 3 del 09/2018.



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Annex CSACI to the Accreditation Certificate 0015PRD

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REVISIONE
REVISION **001**

DATA DI REVISIONE
REVIEW DATE **24-03-2023**

DATA DI SCADENZA
EXPIRY DATE **19-04-2024**

- *Plastica Seconda Vita Ed. 2 Rev. 0 del 10/2021.*

Verification for the recycled and/or recovered and/or by-product content which is present in the products according to the following normative reference:
- *UNI/PdR 88:2020*

National system for the certification of the sustainability of biofuels and bioliquids for the following categories:

- *Farm / Plantation production*
- *Waste/residue material production and slurry/manure*
- *Intermediate and finished products from milling and crushing*
- *Production of biofuels and / or bioliquids*
- *Waste oil recovery*
- *Trading and storage activities*
- *Biomethane production.*
- *Biogas production*

Pest management services according to UNI EN 16636:2015