

ACA Queensland - STANDARDS OFFICER'S REPORT No 2 – May 2009

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Welcome to the second standards report for 2009.

As previously I have used SAI Global at <http://www.saiglobal.com> using the key word groups as shown below. As noted in the 1st Standards report for this year the key word 'Durability' has been added.

In this report I have listed:

1. Standards for AS, AS/NZS, EN, ANSI, ASTM, BSI, DIN, ETSI, JSA, NSAI and standards and amendments for ISO & IEC published from 9 February 2009 to 25 May 2009 for the key works listed
2. One international Standard of possible interest not yet reported was ISO 13823:2008(E) General principals on the design of structures for durability. It is relatively new and not yet translated to the AS/NZS realm. It is important as it describes methodologies for determining durability of structures.

ISO 13823 defines durability as:

- a. 'Capability of a structure or any component to satisfy, with planned maintenance, the design performance requirements over a specified period of time under the influence of environmental actions, or as a result of a self-ageing process',
and design life as
- b. 'Specified period of time for which a structure or a component is to be used for its intended purpose without major repair being necessary'.

ISO 2394 has been used for preparing and harmonizing structural design standards using the limit state method, developed for failures due to gravity, wind, snow and earthquakes.

Lack of understanding of material deterioration has both limited application and caused premature failures.

ISO 13823 provides a framework using the limit state method for the development of mathematical models to predict the service life of components of structures.

For AS & AS/NZS publications there were 5 in all with:

- 1 amendment - AS 3780-2008/Amdt 1-2009 The storage and handling of corrosive substances.
- 3 steel structure paints - AS/NZS 3750.11:2009 Paints for steel structures - Chlorinated rubber - High-build and gloss; AS/NZS 3750.6:2009 Paints for steel structures - Full gloss polyurethane (two-pack); AS/NZS 3750.9:2009 Paints for steel structures - Organic zinc-rich primer
- 1AS/NZS updated standard - AS/NZS 2311:2009 Guide to the painting of buildings.

See the attached list for details, with AS & AN/NZS publications highlighted.

Regards



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STANDARDS, AMMENDMENTS OR DRAFTS FOR AS, AS/NZS, EN, ANSI, ASTM, BSI, DIN, ETSI, JSA, NSAI AND STANDARDS AND AMENDMENTS FOR ISO & IEC PUBLISHED from 9 February 2009 to 25 May 2009 for:

Key word search on ‘durability’

Across all Standard Publications found 5 current standards, 3 Drafts, but no AS or AS/NZS Standards, amendments or drafts were found.

ISO 15928-3:2009 Houses - Description of performance - Part 3: Structural durability

ISO/DIS 24415-2 Tips for assistive products for walking - Requirements and test methods - Part 2: Durability of tips for crutches

09/30183074 DC BS ISO 24415-2. Tips for assistive products for walking. Requirements and test methods. Part 2. Durability of tips for crutches

09/30198721 DC BS EN 15210-1. Solid biofuels. Determination of mechanical durability of pellets and briquettes. Part 1. Pellets

09/30199583 DC BS EN 62059-32-1. Electricity metering equipment. Dependability. Part 32-1. Durability. Testing of the stability of metrological characteristics by applying elevated temperature

BS EN 15706:2009 Hardware for furniture. Strength and durability of slide fittings for sliding doors and roll fronts

BS 4875-5:2009 Strength and stability of furniture. Requirements for strength, durability and stability of tables and trolleys for domestic use

BS EN 61300-2-2:2008 Fibre optic interconnecting devices and passive components. Basic test and measurement procedures. Tests. Mating durability

Key word search on ‘corrosion’ or ‘corrosivity’ or ‘corrosive’ - 11 citations in all with 1 AS Amendment, 2 BS EN Drafts, were found;

AS 3780-2008/Amdt 1-2009 The storage and handling of corrosive substances

ISO/DIS 10271 Dental metallic materials - Corrosion test methods

JIS G 3114:2008 Hot-rolled atmospheric corrosion resisting steels for welded structure

DIN EN 4075 (2009-04) Aerospace series - Screws, pan head, offset cruciform recess, threaded to head, in corrosion resisting steel, passivated - Classification: 490 MPa (at ambient temperature) / 425 °C; German and English version EN 4075:2008

I.S. EN 62535:2009 Insulating Liquids - Test Method for Detection of Potentially Corrosive Sulphur in Used and Unused Insulating oil

BS EN 10088-4:2009 Stainless steels. Technical delivery conditions for sheet/plate and strip of corrosion resisting steels for construction purposes

BS EN 10088-5:2009 Stainless steels. Technical delivery conditions for bars, rods, wire, sections and bright products of corrosion resisting steels for construction purposes

BS EN ISO 13680:2008 Petroleum and natural gas industries. Corrosion- resistant alloy seamless tubes for use as casing, tubing and coupling stock. Technical delivery conditions

BS EN 62535:2009 Insulating liquids. Test method for detection of potentially corrosive sulphur in used and unused insulating oil

09/30200088 DC BS EN 14879-6. Organic coating systems and linings for protection of industrial apparatus and plants against corrosion caused by aggressive media. Part 6. Combined linings with tile and brick layers

09/30199575 DC BS 7846. Electric cables. Thermosetting insulated, armoured, fire-resistant cables of rated voltage 600/1 000 V, having low emission of smoke and corrosive gases when affected by fire. Specification

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Key word search on 'paint' or 'coating'– 47 Standard Publications found for 'paint and or 'coating' in the title. There were 4 AS/NZS standards of which one was AS/NZS 2311:2009 Guide to the painting of buildings;

AS/NZS 2311:2009 Guide to the painting of buildings

AS/NZS 3750.11:2009 Paints for steel structures - Chlorinated rubber - High-build and gloss

AS/NZS 3750.6:2009 Paints for steel structures - Full gloss polyurethane (two-pack)

AS/NZS 3750.9:2009 Paints for steel structures - Organic zinc-rich primer

ISO 16773-3:2009 Paints and varnishes - Electrochemical impedance spectroscopy (EIS) on high-impedance coated specimens - Part 3: Processing and analysis of data from dummy cells

ISO 16773-4:2009 Paints and varnishes - Electrochemical impedance spectroscopy (EIS) on high-impedance coated specimens - Part 4: Examples of spectra of polymer-coated specimens

ISO 20340:2009 Paints and varnishes - Performance requirements for protective paint systems for offshore and related structures

ISO 23811:2009 Paints and varnishes - Determination of percentage volume of non-volatile matter by measuring the non-volatile matter content and the density of the coating material, and calculation of the theoretical spreading rate

ISO 9117-1:2009 Paints and varnishes - Drying tests - Part 1: Determination of through-dry state and through-dry time

ISO/DIS 1518 Paints and varnishes - Scratch test

ISO/FDIS 28199-1 Paints and varnishes - Evaluation of properties of coating systems related to the application process - Part 1: Relevant vocabulary and preparation of test panels

ISO/FDIS 28199-2 Paints and varnishes - Evaluation of properties of coating systems related to the application process - Part 2: Colour stability, process hiding power, re-dissolving, overspray absorption, wetting, surface texture and mottling

ISO/FDIS 28199-3 Paints and varnishes - Evaluation of properties of coating systems related to the application process - Part 3: Visual assessment of sagging, formation of bubbles, pinholing and hiding power

I.S. EN ISO 11507:2007 Paints and Varnishes - Exposure of Coatings to Artificial Weathering - Exposure to Fluorescent uv Lamps and Water

I.S. EN ISO 23811:2009 Paints and Varnishes - Determination of Percentage Volume of Non-volatile Matter by Measuring the Non-volatile Matter Content and the Density of the Coating Material, and Calculation of the Theoretical Spreading Rate

I.S. EN ISO 2808:2007 Paints and Varnishes - Determination of Film Thickness

DR 09032 CP Paints for steel structures - Part 7: Aluminium paint

JIS K 5659:2008 Long durable paints for steel structures

ISO 1461:2009 Hot dip galvanized coatings on fabricated iron and steel articles - Specifications and test methods

ISO 20502:2005/Cor 1:2009 Fine ceramics (advanced ceramics, advanced technical ceramics) - Determination of adhesion of ceramic coatings by scratch testing - Technical Corrigendum 1

ISO 23811:2009 Paints and varnishes - Determination of percentage volume of non-volatile matter by measuring the non-volatile matter content and the density of the coating material, and calculation of the theoretical spreading rate

ISO/DIS 10074 Anodizing of aluminium and its alloys - Specification for hard anodic oxidation coatings on aluminium and its alloys

ISO/DIS 21809-1.2 Petroleum and natural gas industries - External coatings for buried or submerged pipelines used in pipeline transportation systems - Part 1: Polyolefin coatings (3-layer PE and 3-layer PP)

ISO/FDIS 28199-1 Paints and varnishes - Evaluation of properties of coating systems related to the application process - Part 1: Relevant vocabulary and preparation of test panels

ISO/FDIS 28199-2 Paints and varnishes - Evaluation of properties of coating systems related to the application process - Part 2: Colour stability, process hiding power, re-dissolving, overspray absorption, wetting, surface texture and mottling

ISO/FDIS 28199-3 Paints and varnishes - Evaluation of properties of coating systems related to the application process - Part 3: Visual assessment of sagging, formation of bubbles, pinholing and hiding power

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ISO/DIS 7599 Anodizing of aluminium and its alloys - General specifications for anodic oxidation coatings on aluminium

I.S. EN ISO 11507:2007 Paints and Varnishes - Exposure of Coatings to Artificial Weathering - Exposure to Fluorescent uv Lamps and Water

I.S. EN ISO 2081:2009 Metallic and Other Inorganic Coatings - Electroplated Coatings of Zinc With Supplementary Treatments on Iron or Steel

I.S. EN ISO 2082:2009 Metallic and Other Inorganic Coatings - Electroplated Coatings of Cadmium With Supplementary Treatments on Iron or Steel

I.S. EN ISO 23811:2009 Paints and Varnishes - Determination of Percentage Volume of Non-volatile Matter by Measuring the Non-volatile Matter Content and the Density of the Coating Material, and Calculation of the Theoretical Spreading Rate

I.S. EN ISO 26945:2009 Metallic and Other Inorganic Coatings - Electrodeposited Coatings of Tin-cobalt Alloy

I.S. EN 4499:2009 Aerospace Series - Screws, 100 Degrees Countersunk Reduced Head, Offset Cruciform Recess, Close Tolerance Normal Shank, Short Thread, in Titanium Alloy, Anodized, With Aluminium Pigmented Coating - Classification: 1100 mpa (at Ambient Temperature)/315 Degrees c

09/30200088 DC BS EN 14879-6. Organic coating systems and linings for protection of industrial apparatus and plants against corrosion caused by aggressive media. Part 6. Combined linings with tile and brick layers

BS EN 10244-1:2009 Steel wire and wire products. Non-ferrous metallic coatings on steel wire. General principles

BS EN 10244-2:2009 Steel wire and wire products. Non-ferrous metallic coatings on steel wire. Zinc or zinc alloy coatings

BS EN 12373-7:2002 Aluminium and aluminium alloys. Anodizing. Assessment of quality of sealed anodic oxidation coatings by measurement of the loss of mass after immersion in phosphoric acid/chromic acid solution with prior acid treatment

BS EN 15646:2009 Electrodeposited coatings. Electroplated coatings of aluminium and aluminium alloys with supplementary treatment. Requirements and test methods

BS EN 15653:2009 Packaging. Flexible aluminium tubes. Test method to check the resistance of the internal protective coating against ammonia

BS ISO 15726:2009 Metallic coatings and other inorganic coatings. Electrodeposited zinc alloys with nickel, cobalt or iron

BS 1722-16:2009 Fences. Specification for powder coatings used as a plastics finish to components and mesh

BS EN ISO 2081:2008 Metallic and other inorganic coatings. Electroplated coatings of zinc with supplementary treatments on iron or steel

BS EN ISO 2082:2008 Metallic coatings. Electroplated coatings of cadmium with supplementary treatments on iron or steel

BS ISO 26423:2009 Fine ceramics (advanced ceramics, advanced technical ceramics). Determination of coating thickness by crater-grinding method

BS ISO 27831-1:2008 Metallic and other inorganic coatings. Cleaning and preparation of metal surfaces. Ferrous metals and alloys

BS ISO 27831-2:2008 Metallic and other inorganic coatings. Cleaning and preparation of metal surfaces. Non-ferrous metals and alloys

BS EN 4499:2009 Aerospace series. Screws, 100° countersunk reduced head, offset cruciform recess, close tolerance normal shank, short thread, in titanium alloy, anodized, with aluminium pigmented coating. Classification: 1100 MPa (at ambient temperature) / 315 °C

Key word search on 'galvanize' or 'galvanized' or galvanizing' – 1 ISO Standard Publications found;

ISO 1461:2009 Hot dip galvanized coatings on fabricated iron and steel articles - Specifications and test methods

Key word search on 'electrochemical' or 'electrolysis' or 'electroplated'- 7 Standard Publications found, no AS or AS/NZS;

ISO 16773-3:2009 Paints and varnishes - Electrochemical impedance spectroscopy (EIS) on high-impedance coated specimens - Part 3: Processing and analysis of data from dummy cells

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ISO 16773-4:2009 Paints and varnishes - Electrochemical impedance spectroscopy (EIS) on high-impedance coated specimens - Part 4: Examples of spectra of polymer-coated specimens

I.S. EN ISO 2081:2009 Metallic and Other Inorganic Coatings - Electroplated Coatings of Zinc With Supplementary Treatments on Iron or Steel

I.S. EN ISO 2082:2009 Metallic and Other Inorganic Coatings - Electroplated Coatings of Cadmium With Supplementary Treatments on Iron or Steel

BS EN 15646:2009 Electrodeposited coatings. Electroplated coatings of aluminium and aluminium alloys with supplementary treatment. Requirements and test methods

BS EN ISO 2081:2008 Metallic and other inorganic coatings. Electroplated coatings of zinc with supplementary treatments on iron or steel

BS EN ISO 2082:2008 Metallic coatings. Electroplated coatings of cadmium with supplementary treatments on iron or steel

Key word search on 'cathode' or 'cathodic' - 0 Standard Publications found.

Key word search on 'anode' or 'anodes' or 'anodic' – 5 Standard Publications found, 0 AS/NZS;

ISO/DIS 10074 Anodizing of aluminium and its alloys - Specification for hard anodic oxidation coatings on aluminium and its alloys

ISO/DIS 7599 Anodizing of aluminium and its alloys - General specifications for anodic oxidation coatings on aluminium

I.S. EN 4499:2009 Aerospace Series - Screws, 100 Degrees Countersunk Reduced Head, Offset Cruciform Recess, Close Tolerance Normal Shank, Short Thread, in Titanium Alloy, Anodized, With Aluminium Pigmented Coating - Classification: 1100 mpa (at Ambient Temperature)/315 Degrees c

BS EN 12373-7:2002 Aluminium and aluminium alloys. Anodizing. Assessment of quality of sealed anodic oxidation coatings by measurement of the loss of mass after immersion in phosphoric acid/chromic acid solution with prior acid treatment

BS EN 4499:2009 Aerospace series. Screws, 100° countersunk reduced head, offset cruciform recess, close tolerance normal shank, short thread, in titanium alloy, anodized, with aluminium pigmented coating. Classification: 1100 MPa (at ambient temperature) / 315 °C

Key word search on 'corrosion' and 'concrete' or 'concrete' and 'coatings' - 0 Standard Publications found



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