

STANDARD INFORMATION

This SUN establishes the Continuing Certification approach for Junction and Pull Boxes

Standard Number: CSA C22.2 No. 40

Standard Name: Junction and Pull Boxes

Standard Edition and Issue Date: 5th Edition dated December 1, 2017

Date of Revision: December 1, 2017

Date of Previous Revision of Standard: 4th Edition Reaffirmed 2014

EFFECTIVE DATE OF NEW/REVISED REQUIREMENTS

Effective Date: **No action is required for currently certified products to maintain certification.**

This SUN is being presented to assist users of the standard to appreciate the significance of the changes made to the standard that will apply should the product described be modified after July 1, 2021.

IMPACT, OVERVIEW, AND ACTION REQUIRED

Impact Statement: No action is required for currently certified products to maintain certification.

NOTE: Effective immediately, this revised standard will be exclusively used for evaluation of new products unless the Applicant requests in writing that current requirements be used with the understanding that if changes are made to the product after the effective date, the product must comply with the new/revised requirements.

Overview of Changes:

- Addition of requirements for galvanized sheet steel enclosures
- Revision of requirements for testing paint finishes
- Revision of requirements for flame tests

Specific details of new/revised requirements are found in table below.

Client Action:

Information – To assist our Engineer with review of your Listing Reports, please submit technical information in response to the new/revised paragraphs noted in the attached or explain why these new/revised requirements do not apply to your product (s).

Current Listings Not Active? – Please immediately identify any current Listing Reports or products that are no longer active and should be removed from our records. We will do this at no charge as long as Intertek is notified in writing prior to the review of your reports.



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CLAUSE	VERDICT	COMMENT
		<i>Additions to existing requirements are <u>underlined</u> and deletions are shown lined-out below.</i>
4	Info	Construction
4.10	Info	Protection Against Corrosion
		<i>New clause added;</i>
4.10.2		<p>If an enclosure is made of pre-galvanized sheet steel, the average coating thickness shall be not less than 0.0089 mm and shall have a minimum thickness of 0.0045 mm. The combined thickness of both the inside and the outside of the same portion shall have a total thickness of not less than 0.0178 mm.</p> <p>The following are not required to be so protected:</p> <ul style="list-style-type: none">a) cut edges and punched holes in a surface formed from galvanized stock;b) threaded surfaces of tapped holes in the enclosure; andc) a spot or projection weld.
6	Info	Tests
6.1	Info	Metal Enclosures
		Testing Paint Finishes
6.1.2		<p>The uniformity of protective paint or epoxy systems shall be tested by a suitable magnetic, electrostatic, or optical method; and when tested at any time up to one year from the time of manufacture, the coating should be tough and flexible enough so that a short piece, sliced from a section of the enclosure by means of a sharp knife, will show a tendency to curl as the knife edge travels along the surface of the sample, and will not flake, crumble, or give evidence of lack of adhesion <u>shall meet the requirements of Test Method B (cross-cut tape test) of ASTM D3359.</u> The durability of the coating shall be such that, when struck by a mass weighing 1.81 kg, falling through a distance of 305 mm and having, at the point of impact, a hardened steel ball 25.4 mm in diameter, the coating will show an unbroken surface even when the surface of the metal is slightly dented by the force of the blow.</p>



CLAUSE	VERDICT	COMMENT
6.2	Info	Nonmetallic Boxes and Covers
6.2.1	Info	Flame
		A specimen of a box and cover shall be tested in accordance with the <u>flame penetration and flammability tests in CSA C22.2 No. 42.1.</u> test in Clause 5 of CSA Standard C22.2 No. 0.6 except that
6.2.1.2		(a) the test specimen shall be the finished product; (b) the flame shall be applied for 60 s and then removed for 30 s until three such applications have been made; (c) the test specimen shall be secured in place with its longitudinal axis vertical and its largest surface facing the flame; and (d) the longitudinal axis of the barrel of the burner shall be in a vertical plane and shall intersect the centre of the large face of the specimen at a point 30 mm from the plane of the tip of the barrel.
		Dropping of Burning Particles
6.2.2		When tested as specified in Clause 6.2.2.2 a box and cover shall neither burn for more than 30 s after subjection to the test flame for a period of 30 s, nor shall the surgical cotton ignite at any time during or after the test.
		<u>When tested as specified in the burning particles (dropping) test in CSA C22.2 No. 2556, a box and cover shall neither burn for more than 30 s after subjection to the test flame for a period of 30 s, nor shall the surgical cotton ignite at any time during or after the test.</u>
CUSTOMERS PLEASE NOTE: This Table and column “Verdict” can be used in determining how your current or future production is or will be in compliance with new/revised requirements.		