

INCH-POUND

A-A-52313A

29 August 2006

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SUPERSEDEING

A-A-52313

21 October 1994

## COMMERCIAL ITEM DESCRIPTION

### STEEL SHEETS, CORRUGATED: 2-1/2 INCH NOMINAL CORRUGATION, PAINTED OR UNPAINTED

(This document remains INACTIVE FOR NEW DESIGN per Notice 1,  
dated 24 Oct 01.)

The General Services Administration has authorized the use of this commercial item description for all federal agencies.

1. **SCOPE.** This commercial item description covers painted and unpainted corrugated steel sheets for roofing (type I) and siding (type II).

2. **CLASSIFICATION.** The corrugated steel sheets shall be of the following types:

Type I – Roofing sheet, edges turned opposite.

Type II – Siding sheet, edges turned in same direction.

3. **SALIENT CHARACTERISTICS.**

3.1 **Design.** Corrugations on the steel sheets shall be approximately parallel to each other and to the longitudinal edge of the sheet. All corrugated sheets shall nest when placed on top of one another and shall fit together when one sheet is overlapping the other.

3.2 **Material.** Material for the corrugated steel sheets shall conform to ASTM A929/A929M and ASTM A1008/A1008M.

3.3. **Corrugations.** The corrugations of each sheet shall be the standard 2-1/2 inch nominal size, approximately 2-2/3 inches from center to center and approximately 1/2 inch deep.

Beneficial comments, recommendations, additions, deletions, clarifications, etc. and other data that may improve this document shall be sent to Commander, US Army Aviation and Missile Command, ATTN: AMSRD-AMR-SE-TD-ST, Redstone Arsenal, AL 35898-5000, or emailed to [malinda.allcorn1@us.army.mil](mailto:malinda.allcorn1@us.army.mil).

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3.4. Out-of-square. The ends of the corrugated steel sheets shall not be out-of-square more than 5/16-inch in the full width.

3.5 Covering width. The covering width of each corrugated sheet shall be 24 inches  $\pm$  1 inch. The nominal 2-1/2 inch corrugation is 2.66 inches in actual width because nine corrugations measure 24 inches in cover width.

3.6 Type I, roofing sheet. The type I roofing sheet shall be of the following dimensions and shall be corrugated with one longitudinal edge turned up and the other turned down.

3.6.1 Width. The width of the roofing sheet after corrugation shall be 27-1/2 inches with a tolerance of + 1/2 inch or -0 inch.

3.6.2 Length. The roofing shall be of the following lengths:

- a. 96 inches – tolerance +3/4-inch, -0 inch
- b. 132 inches – tolerance +1-1/4 inch, -0 inch
- c. 144 inches – tolerance +1-1/4 inch, -0 inch.

3.7 Type II, siding sheet. The type II siding sheets shall be corrugated with both longitudinal edges turned in the same direction.

3.7.1 Width. The width of the siding sheet after corrugation shall be 26 inches with a tolerance of +1/2 inch or -0 inch.

3.7.2 Length. The siding sheet shall be of the following lengths:

- a. 60 inches – tolerance +1/2 inch, -0 inch
- b. 108 inches – tolerance +1 inch, -0 inch
- c. 144 inches – tolerance +1-1/4 inch, -0 inch.

3.8 Thickness. The unpainted sheets shall be of the following nominal thickness:

- a. 0.0149-inch (28 gauge)
- b. 0.0299-inch (22 gauge).

3.9 Treatment and painting. When specified, the corrugated steel sheets shall be cleaned, treated, and painted in accordance with DoD-P-15328 (pretreatment), MIL-P-53022 (primer), and MIL-DTL-53039 (topcoat). The top coat shall be the color and gloss as specified in the contract or purchase order. Finish shall be identified as:

- a. U – unpainted
- b. P – painted.

3.10 Salt resistance of coating. The coating applied in treatment and painting shall withstand 300 hours of salt fog treatment in accordance with ASTM B117 without any

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visible deterioration of the film, or a lightening or darkening that exceeds more than 10% of the original reflectance.

3.11 Sand abrasion resistance of coating. The coating top coat shall withstand at least 20 liters of sand per mil of thickness when tested in accordance with ASTM-D968.

3.12 Workmanship. The corrugated sheets shall be free from laminations, slivers, open seams, mill scale, heavy rolled-in-scale, ragged edges, turned down corners, or other extraneous abrasions affecting appearance or serviceability. Painted sheets shall, in addition to the above, be free from blisters, pits, thin spots, runs, steaks, or abrasions, damaging to the coating.

3.13 Contractor certification. The contractor shall certify and maintain substantiating evidence that the product offered meets the salient characteristics of this commercial item description, and that the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices. The Government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under this provisions of the contract.

3.14 Metric products. Products manufactured to metric dimensions will be considered on an equal basis with those manufactured using inch-pound units, provided they fall within specified tolerances using conversion tables contained in the latest version of FED-STD-376, and all other requirements of this commercial item description are met. If a product is manufactured to metric dimensions and those dimensions exceed the tolerances specified in the inch/pound units, a request should be made to the contracting officer to determine if the product is acceptable. The contracting officer has the option of accepting or rejecting the product.

3.15 Quality assurance. The corrugated steel sheets shall be examined for the following defects. Presence of one or more defects shall be cause for rejection.

- a. Nesting and overlapping not as specified (see 3.1).
- b. Corrugation not as specified.
- c. Sheet ends more than 5/16 inch out-of-square.
- d. Covering width not as specified.
- e. The dimensions for type I roofing sheet not as specified.
- f. Edges for type I roofing sheet not turned in opposite direction.
- g. The dimensions for type II siding sheet not as specified.
- h. Edges for type II siding sheets not turned in the same direction.
- i. Thickness of unpainted sheets not as specified.
- j. Treatment and painting, when specified, and color and gloss not as specified.
- k. Salt resistance of coating not as specified.
- l. Sand abrasion resistance of coating not as specified.
- m. Workmanship not as specified.

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4. REGULATORY REQUIREMENTS. The offeror/contractor is encouraged to use recovered materials in accordance with Federal Acquisition Regulation, section 23.403 to the maximum extent practicable.

5. PRODUCT CONFORMANCE.

5.1 Product conformance. The products provided shall meet the salient characteristics of this Commercial Item Description, conform to the producer's own drawings, specifications, standards, and quality assurance practices, and be the same product offered for sale in the commercial marketplace. The Government reserves the right to require proof of such conformance.

5.2. Market acceptability. The item offered must have been sold to the Government or commercial market for not less than 2 years prior to the current contract or purchase order.

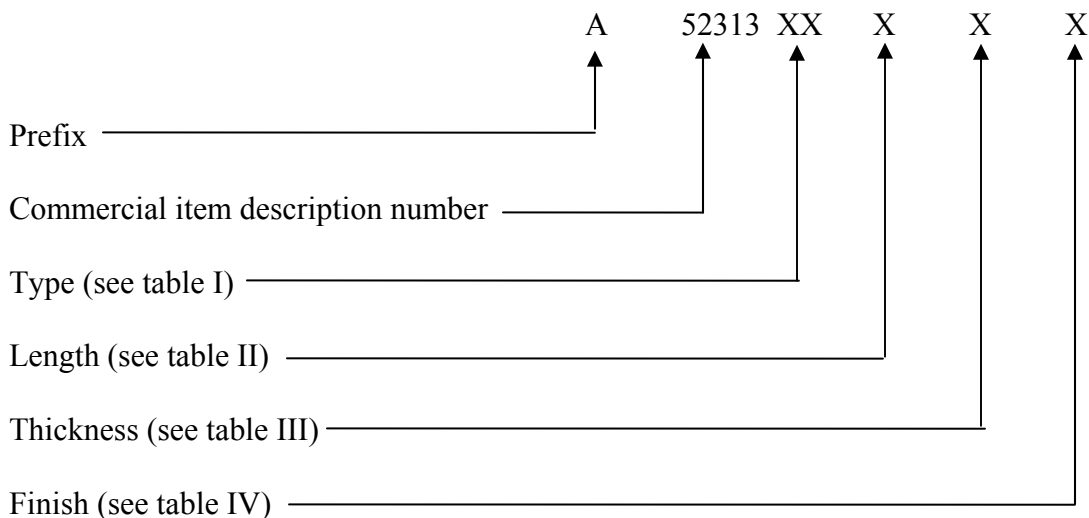
6. PACKAGING. Preservation, packaging, and marking shall be as specified in the contract or order.

7. NOTES.

7.1 Part identification.

7.1.1 CID based part identification number. The following part identification numbering procedure is for Government purposes and does not constitute a requirement for the contractor.

7.1 Part or identification number (PIN). The PIN to be used for steel sheets acquired to the commercial item description is created as follows:



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TABLE I. Code number for type.

Code Number	Type
I	I – Roofing sheet, edges turned opposites.
II	II – Siding sheet, edges turned in same direction.

TABLE II. Code letter to length.

Code Letter	Length (inches)	Code letter to length
A	96	Applicable to type I
B	132	Applicable to type I
C	144	Applicable to type I & II
D	60	Applicable to type II
E	108	Applicable to type II

TABLE III. Code letter to length.

Code Letter	Length (inches)	Code letter to length
A	132	0.0149 inch (28 gauge)
B		0.0299 inch (22 gauge)

TABLE IV. Code letter to length.

Code Letter	Finished
U	Unpainted
P	Painted

7.2. Procurement options. The procuring agency should specify the preferred options permitted herein and include the following information in procurement documents:

- a. Title, number, and date of this item description.
- b. Type, length, thickness, and finish.
- c. Color and gloss required when paint is specified.
- d. When the commercial item description is used for acquisition, the commercial item certification clause must appear in the solicitation.

7.3. Availability of references.

7.3.1 Federal documents. Copies of FED-STD-376 are available online at <http://assist.daps.dla.mil> or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.

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7.3.2 Industry documents. Copies of ASTM-B117 and ASTM-D968 are available online at <http://www.astm.org> or American Society for Testing and Materials, 100 Barr Harbor Drive, W. Conshohocken, PA 19428-2959.

MILITARY INTERESTS:

Custodian:

Army – AV  
Air Force – 99

Review Activities:

DLA – IS  
Other – NS

CIVIL AGENCY  
COORDINATING ACTIVITIES:

GSA – 7FXE

Preparing Activity:

Army – AV

Project Number:

9515-2006-004

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://assist.daps.dla.mil>.