

U.S. DEPARTMENT OF COMMERCE  
NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY  
(formerly National Bureau of Standards-NBS)  
OFFICE OF STANDARDS SERVICES

**COMMERCIAL STANDARD CS244-62**

**ROOF DRAINAGE PRODUCTS**

Commercial Standard CS244-62, Roof Drainage Products, was withdrawn by the U.S. Department of Commerce on July 2, 1972.

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The following standard was used to replace CS244-62: ANSI Standard A112.21.2-1971, Roof Drains [ANSI/ASME A112.21.2M revision of ANSI A112.21.2-1971].

Contact the following organizations directly for further assistance, additional standards information and/or copies:

**American National Standards Institute (ANSI)**

11 West 42nd Street, 13th Floor

New York, New York 10036, USA

Inquiries/Orders (212) 642-4900; Fax: (212) 302-1286

ANSI staff contacts on the subject:

Telephone: (212) 642-4982 on construction

(212) 642-4944/-4946 on mechanical

Fax: (212) 398-0023

**American Society of Mechanical Engineers (ASME)**

345 East 47th Street

New York, New York 10017

Inquiries: (800) 843-2763; (212) 705-7722

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# FEDERAL REGISTER

## National Bureau of Standards

### COMMERCIAL STANDARDS AND SIMPLIFIED PRACTICE RECOMMENDATIONS

#### Notice of Intent to Withdraw Certain Standards

In accordance with § 10.12 of the Department of Commerce procedures for the development of Voluntary Product Standards (15 CFR Part 10, as revised; 35 F.R. 8349 dated May 28, 1970), notice is hereby given of the Department's intent to withdraw the 81 standards identified below. It has been tentatively determined that each of these Commercial Standards (CS) and Simplified Practice Recommendations (SPR) are no longer technically adequate or used by the industry, or are otherwise not in the public interest.

- CS 16-29 Wall Paper.
- CS 26-30 Aromatic Red Cedar Closet Lining.
- CS 27-36 Mirrors.
- CS 28-46 Cotton Fabric Tents, Tarpaulins and Covers.
- CS 43-32 Grading of Sulphonated (Sulphated) Oils - Saponifiable Types.
- CS 61-51 Venetian Blinds (Grade A Custom-Made).
- CS 73-61 Old Growth Douglas Fir, Sitka Spruce, and Western Hemlock Doors.
- CS 76-39 Hardwood Interior Trim and Molding.
- CS 78-40 Ground-and-Polished Lenses for Sun Glasses.
- CS 79-40 Blown, Drawn, and Dropped Lenses for Sun Glasses.
- CS 89-40 Hardwood Stair Treads and Risers.
- CS 92-41 Cedar, Cypress and Redwood Tank Stock Lumber.
- CS 119-45 Dial Indicators (For Linear Measurements).
- CS 133-46 Woven Wire Netting.
- CS 134-46 Cast Aluminum Cooking Utensils (Metal Composition).
- CS 140-47 Testing and Rating Convectors.
- CS 141-47 Sine Bars, Blocks, Plates and Fixtures.
- CS 159-49 Sun Glass Lenses Made of Ground and Polished Plate Glass Thereafter Thermally Curved.
- CS 160-49 Wood Fiber Blanket Insulation (For Building Construction).
- CS 161-59 "Standard Grade" Hot Dipped Galvanized Ware (Coated After Fabrication).
- CS 162-49 Tufted Bedspreads.
- CS 167-50 Automotive and General Service Copper Tube.
- CS 168-50 Polystyrene Plastic Wall Tiles, and Adhesives for Their Application.
- CS 169-50 Galvanized Ware Fabricated from Pregalvanized Steel Sheets (For Standard Grade Items Only).
- CS 206-57 Solvent Welded (SWP Size) (Cellulose-Acetate Butyrate Pipe)

- CS 226-59 Method of Rating Commercial and Industrial Type Vacuum Cleaners, Portable and Mobile Types.
- CS 231A-60 Aircraft Hangar Doors Manually Operated Horizontal Sliding Type (Steel Frame).
- CS 231B-61 Aircraft Hangar Doors, of the Individually Power-Operated Horizontal Sliding Type (Steel Frame).
- CS 231C-63 Aircraft Hangar Doors of the Partial Group Power-Operated Horizontal Sliding Type (Steel Frame).
- CS 231D-63 Aircraft Hangar Doors of the Full-Group Power-Operated Horizontal Sliding Type (Steel Frame).
- CS 231E-63 Aircraft Hangar Doors of the Power-Operated Unbraced-Canopy Type (Steel Frame).
- CS 232-60 Industrial Wire Cloth.
- CS 244-62 Roof Drainage Products.
- CS 252-63 TFE-Fluorocarbon (Polytetrafluoroethylene) Resin Electrical Insulating Tubing.
- CS 263-64 Aluminium Nails.
- CS 267-65 Steel Medicine Cabinets.
- SPR 6-63 Standard Stock Sizes of American Pattern and Curved Milled Tooth Files and Rasps.
- SPR 11-36 Bed Blanket Sizes.
- SPR 22-40 Paper (Basic Sheet Sizes).
- SPR 31-63 Loaded Shot Shell.
- SPR 37-38 Commercial Forms (Invoice, Purchase Order and Inquiry).
- SPR 42-61 Grocers' Paper Bags.
- SPR 47-64 Cut Tacks and Small Cut Nails.
- SPR 51-29 Chasers for Self-Opening and Adjustable Die Heads.
- SPR 53-63 Steel Spirals for Reinforced Concrete Columns.
- SPR 62-63 Metallic Cartridges.
- SPR 76-40 Ash Handles.
- SPR 81-28 Binders' Board.
- SPR 80-62 Hack-Saw Blades.
- SPR 91-32 Glass Containers for Preserves, Jellies and Apple Butter.
- SPR 129-59 Merchandise Paper Bags.
- SPR 132-36 Ice Cream Cups and Cup Caps.
- SPR 146-52 Corrugated and Solid-Fiber Boxes for Canned Fruits and Vegetables.
- SPR 150-64 Copper Wire Nails.
- SPR 155-49 Cans for Fruits and Vegetables (Names, Dimensions, Capacities and Designated Use).
- SPR 162-35 Packaging of Air Brake (Electric Railway) Parts.
- SPR 173-54 Stock Folding Boxes for Millinery.
- SPR 175-40 Heavy-Duty, Round Nesting Paper, Food and Beverage Containers and Lids.
- SPR 187-42 Food Trays or Dishes (Waxed Paper, Molded Wood Pulp, and Wood Types).
- SPR 197-51 Glass Containers for Maraschino Cherries.
- SPR 206-63 Standard Stock Sizes of Swiss Pattern Files.
- SPR 208-55 Fluid-Milk Cans.
- SPR 213-45 Asphalt Roll Roofing and Asphalt and Tar-Saturated Felt Products.
- SPR 217-49 Copper Water Tube, and Copper and Brass Pipe.
- SPR 218-46 Paper Tubes for Packaging Milk Bottle Caps.
- SPR 223-47 Wire Nails and Staples.
- SPR 228-47 Pallets for Handling Groceries and Packaged Merchandise.
- SPR 235-48 Copper and Copper-Alloy Round Seamless Tube.
- SPR 241-50 Copper and Copper-Alloy Rod.
- SPR 246-51 Wooden Kegs for Nails.
- SPR 248-52 Packaging of Standard Malleable Iron Screwed Pipe Fittings, Black or Galvanized.
- SPR 250-53 Standard Drug Catalogs.
- SPR 251-54 Packaging of Gas Stop Cocks.
- SPR 252-60 Standard Sizes of Pint, Quart, and Half-Gallon Rectangular Ice Cream Cartons and Molds.
- SPR 254-54 Packaging of Steel Pipe Couplings.
- SPR 256-55 Steel Outlet Boxes, Zinc or Cadmium Coated.
- SPR 257-55 Thermal Conductance Factors for Preformed Above-Deck Roof Insulation.
- SPR 258-56 One-Pound Eastern Flat Margarine Carton.
- SPR 261-58 One-Pound Elgin-Style Butter Cartons Sizes.
- SPR 262-60 Acoustical Materials.
- SPR 263-60 Standard Shapes, Sizes, Grades and Designations of Cemented Carbide Products.

Any comments or objections concerning the intended withdrawal of any of these standards should be made in writing and directed to the Office of Engineering Standards Services, National Bureau of Standards, Washington, D.C. 20234, within 45 days of the publication of this notice. The effective date of withdrawal, where appropriate, will be not less than 60 days after the final notice of withdrawal. Withdrawal action terminates the authority to refer to a published standard as a voluntary standard developed under the Department of Commerce procedures, from the effective date of the withdrawal.

Dated: February 28, 1972.

LEWIS M. BRANSCOMB,  
Director.

[FR Doc.72-3253 Filed 3-2-72; 8:49 am]

Reprinted from

DEPARTMENT OF COMMERCE

National Bureau of Standards  
VOLUNTARY PRODUCT STANDARDS

Notice of Action on Proposed  
Withdrawal

In accordance with the provisions of § 10.12 of the Department's published "Procedures for the Development of Voluntary Product Standards" (15 CFR Part 10, as amended; 35 F.R. 8349 dated May 28, 1970), notice is hereby given of the withdrawal of 68 standards identified below. Each of these standards, Commercial Standard (CS) and Simplified Practice Recommendation (SPR), has been found to be obsolete, no longer technically adequate, no longer acceptable to and used by the industry, or otherwise not in the public interest.

- CS 16-29 Wallpaper.
- CS 26-30 Aromatic Red Cedar Closet Lining.
- CS 27-36 Mirrors.
- CS 28-46 Cotton Fabric Tents, Tarpaulins, and Covers.
- CS 43-32 Grading of Sulphonated (Sulphated) Oils Saponifiable Types.
- CS 61-51 Venetian Blinds (Grade A Custom-Made).
- CS 73-61 Old Growth Douglas Fir, Sitka Spruce, and Western Hemlock Doors.
- CS 76-39 Hardwood Interior Trim and Molding.
- CS 78-40 Ground-and-Polished Lenses for Sun Glasses.
- CS 79-40 Blown, Drawn, and Dropped Lenses for Sun Glasses.
- CS 89-40 Hardwood Stair Treads and Risers.
- CS 92-41 Cedar, Cypress and Redwood Tank Stock Lumber.
- CS 119-45 Dial Indicators (For Linear Measurements).
- CS 133-46 Woven Wire Netting.
- CS 140-47 Testing and Rating Convector.
- CS 141-47 Sine Bars, Blocks, Plates and Fixtures.
- CS 159-49 Sun Glass Lenses Made of Ground and Polished Plate Glass Thereafter Thermally Curved.
- CS 160-49 Wood Fiber Blanket Insulation (For Building Construction.)
- CS 161-59 "Standard Grade" Hot Dipped Galvanized Ware (Coated After Fabrication).
- CS 162-49 Tufted Bedsprads.
- CS 167-50 Automotive and General Service Copper Tube.
- CS 168-50 Polystyrene Plastic Wall Tiles, and Adhesives for Their Application.
- CS 169-59 Galvanized Ware Fabricated from Pregalvanized Steel Sheets (For Standard Grade Items Only).
- CS 206-57 Solvent Welded (SWP Size) Cellulose-Acetate Butyrate Pipe.
- CS 225-59 Method of Rating Commercial and Industrial Type Vacuum Cleaners, Portable and Mobile Types.
- CS 232-60 Industrial Wire Cloth.
- CS 244-62 Roof Drainage Products.
- CS 252-63 TFE-Fluorocarbon (Polytetrafluoroethylene) Resin Electrical Insulating Tubing.

- CS 263-64 Aluminum Nails.
- CS 267-65 Steel Medicine Cabinets.
- SPR 11-36 Bed Blanket Sizes.
- SPR 22-40 Paper (Basic Sheet Sizes).
- SPR 31-63 Loaded Shot Shell.
- SPR 37-38 Commercial Forms (Invoice, Purchase Order and Inquiry).
- SPR 42-61 Grocers' Paper Bags.
- SPR 47-54 Cut Tacks and Small Cut Nails.
- SPR 51-29 Chasers for Self-Opening and Adjustable Die Heads.
- SPR 53-63 Steel Spirals for Reinforced Concrete Columns.
- SPR 62-63 Metallic Cartridges.
- SPR 76-40 Ash Handles.
- SPR 81-28 Binders' Board.
- SPR 90-62 Hack-Saw Blades.
- SPR 91-32 Glass Containers for Preserves, Jellies and Apple Butter.
- SPR 129-59 Merchandise Paper Bags.
- SPR 146-52 Corrugated and Solid-Fiber Boxes for Canned Fruits and Vegetables.
- SPR 150-34 Copper Wire Nails.
- SPR 155-49 Cans for Fruits and Vegetables (Names, Dimensions, Capacities and Designated Use).
- SPR 162-36 Packaging of Air Brake (Electric Railway) Parts.
- SPR 173-54 Stock Folding Boxes for Millinery.
- SPR 197-51 Glass Containers for Maraschino Cherries.
- SPR 206-55 Fluid-Milk Cans.
- SPR 213-45 Asphalt Roll Roofing and Asphalt and Tar-Saturated Felt Products.
- SPR 217-49 Copper Water Tube, and Copper and Brass Pipe.
- SPR 218-46 Paper Tubes for Packaging Milk Bottle Caps.
- SPR 223-47 Wire Nails and Staples.
- SPR 228-47 Pallets for Handling Groceries and Packaged Merchandise.
- SPR 235-48 Copper and Copper-Alloy Round Seamless Tube.
- SPR 241-50 Copper and Copper-Alloy Rod.
- SPR 246-51 Wooden Kegs for Nails.
- SPR 248-62 Packaging of Standard Malleable Iron Screwed Pipe Fittings, Black or Galvanized.
- SPR 250-53 Standard Drug Catalogs.
- SPR 251-54 Packaging of Gas Stop Cocks.
- SPR 254-54 Packaging of Steel Pipe Couplings.
- SPR 256-55 Steel Outlet Boxes, Zinc or Cadmium Coated.
- SPR 262-60 Acoustical Materials.
- SPR 263-60 Standard Shapes, Sizes, Grades and Designations of Cemented Carbide Products.

Public notice of the Department's intention to withdraw these standards was published in the FEDERAL REGISTER on March 3, 1972 (37 F.R. 4459), and a 45-day period was provided for the submission of comments or objections concerning the proposed withdrawal of any of these standards. No objections to the Department's intention of withdrawing any of these standards have been received by the National Bureau of Standards.

The effective date for the withdrawal of these standards will be 60 days after the publication of this notice. This withdrawal action terminates the authority to refer to these standards as Voluntary Product Standards developed under the Department of Commerce Procedures.

Dated: April 27, 1972.

LEWIS M. BRANSCOMB,  
Director.

[FR Doc.72-6710 Filed 5-2-72;8:47 am]

Printed from

File Copy

Withdrawn July 2, 1972

**DO NOT REMOVE**

**Commercial Standard CS244-62**

Supersedes SPR29-51

**Roof Drainage Products**  
**WITHDRAWN**

A recorded  
voluntary standard of the  
trade published by  
the U.S. Department  
of Commerce



**For sale by the Superintendent of Documents  
U.S. Government Printing Office, Washington 25, D.C. - Price 10 cents**

**U.S. DEPARTMENT OF COMMERCE  
BUSINESS AND DEFENSE SERVICES ADMINISTRATION  
OFFICE OF TECHNICAL SERVICES  
Commodity Standards Division**

With the cooperation of the  
National Bureau of Standards

**EFFECTIVE DATE**

Having been passed through the regular procedures of the Commodity Standards Division, and approved by the acceptors hereinafter listed, this Commercial Standard is issued by the U.S. Department of Commerce, effective February 19, 1962.

LUTHER H. HODGES, *Secretary.*

**COMMERCIAL STANDARDS**

Commercial Standards are developed by manufacturers, distributors, and users in cooperation with the Commodity Standards Division of the Office of Technical Services, Business and Defense Services Administration, and with the National Bureau of Standards. Their purpose is to establish quality criteria, standard methods of test, rating, certification, and labeling of manufactured commodities, and to provide uniform bases for fair competition.

The adoption and use of a Commercial Standard is voluntary. However, when reference to a Commercial Standard is made in contracts, labels, invoices, or advertising literature, the provisions of the standard are enforceable through usual legal channels as a part of the sales contract.

Commercial Standards originate with the proponent industry. The sponsors may be manufacturers, distributors, or users of the specific product. One of these three elements of industry submits to the Commodity Standards Division the necessary data to be used as the basis for developing a standard of practice. The division by means of assembled conferences or letter referenda, or both, assists the sponsor group in arriving at a tentative standard of practice and thereafter refers it to the other elements of the same industry for approval or for constructive criticism that will be helpful in making any necessary adjustments. The regular procedure of the division assures continuous servicing of each Commercial Standard through review and revision whenever, in the opinion of the industry, changing conditions warrant such action.

**SIMPLIFIED PRACTICE RECOMMENDATIONS**

Under a similar procedure the Commodity Standards Division cooperates with industries in the establishment of Simplified Practice Recommendations. Their purpose is to eliminate avoidable waste through the establishment of standards of practice for sizes, dimensions, varieties, or other characteristics of specific products; to simplify packaging practices; and to establish simplified methods of performing specific tasks.

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The initial printing of this Commercial Standard was made possible through the cooperation of the Roof Drainage Manufacturers Institute.

# Roof Drainage Products

(Effective February 19, 1962)

## 1. PURPOSE

1.1 The purpose of this Commercial Standard is to establish nationally recognized standards for the shapes, sizes, and materials of roof drainage products. Its purpose is also to provide information for the guidance of producers, distributors, architects, builders, and the general public; to provide a means for identifying products which comply with the standard through the use of labels or certificates; to promote better understanding between the buyer and the seller, and to effect economies from the producer to the ultimate consumer.

## 2. SCOPE

2.1 This standard covers the shapes and stock sizes of 10 pre-fabricated roof drainage products and their accessories made of galvanized steel and iron sheet, copper, stainless steel, aluminum, or terne plate. It also provides a means of certifying and identifying those items which comply with the requirements given herein.

## 3. CLASSIFICATION

3.1 The standard shapes and stock sizes of the items covered by this standard are listed in Table 1. The numbers at the left margin of the table refer to Figure 1, Illustrations of Standard Stock Roof Drainage Products, which is given for convenience in identifying the items described, and also to provide dimensional data of roof edgings and gravel stops.

TABLE 1.—Sizes and Lengths of Standard Stock Roof Drainage Products

Ill. No.	Item	Size	Length
1	GUTTERS:	4, 5, & 6 inch widths	10 feet.
	Half round <sup>1</sup>	4, 5, & 6 inch widths	10 feet.
2	Style K <sup>1</sup>	4, 5, & 6 inch widths	10 feet.
CONDUCTOR PIPE:			
3-A	Plain round <sup>1</sup>	2, 3, 4, 5 & 6 inch dia	10 feet.
3-B	Corrugated round <sup>1</sup>	2, 3, 4, 5 & 6 inch dia	10 feet.
3-C	Corrugated square <sup>1</sup>	2, 3, 4, & 5 inch	10 feet.
ELBOWS (CONDUCTOR PIPE):			
4A-D	Plain round, 45, 60, 75 & 90°	2, 3, 4, 5 & 6 inch dia	
	Corrugated round, 45, 60, 75 & 90°	2, 3, 4, 5 & 6 inch dia	
	Corrugated Square, 45, 60, 75 & 90°	2, 3, 4, & 5 inch	
SHOES (CONDUCTOR PIPE):			
5	Plain round, 75°	2, 3, 4, 5, & 6 inch dia	
	Corrugated round, #3-75°	2, 3, 4, 5, & 6 inch dia	
	Corrugated square, #3-75°	2, 3, 4, & 5 inch	
6	FORMED VALLEY	14, 16, & 20 inch girth	10 feet.
7	ROLL FLASHING AND VALLEY	4, 6, 8, 10, 12, 14, 16, 18, 20, 24 & 28 inch widths.	50 feet.
		2 inch roll, 10 inch girth, 2½ inch apron	10 feet.
8	PLAIN RIDGE ROLL		10 feet.
9	ROOF EDGING:		10 feet.
	Style A	3 inch girth <sup>2</sup>	10 feet.
	Style B	3 inch girth <sup>2</sup>	10 feet.
	Style C	5 inch girth <sup>2</sup>	10 feet.
	Style D	5 inch girth <sup>2</sup>	10 feet.
10A-B	GRAVEL STOP	5 & 6 inch girth <sup>2</sup>	10 feet.

<sup>1</sup> Including matching miters, ends, slip joints, connectors and accessories.  
<sup>2</sup> See illustrations for dimensions.

#### 4. REQUIREMENTS

4.1 The materials used in fabricating the products described herein shall meet the following requirements. The standards, specifications and manual referred to in the paragraphs below shall be the latest editions and are available from the sources given in footnotes 1, 2 and 3.

4.2 **Galvanized Steel and Iron Sheet.**—Galvanized steel and iron sheet shall comply with ASTM Designation A93, Zinc-Coated (Galvanized) Iron and Steel Sheets, Coils and Cut Lengths, or Federal Specification QQ-S-775, Class E, Iron and Steel; Sheet, Zinc-Coated (Galvanized). The zinc coating shall be not less than 1.25 ounces (pot yield) per square foot. The weight of the coating is the total amount on both sides of the sheet expressed in ounces per square foot. The minimum thickness shall be 0.018 inch (28 gage).<sup>4</sup>

4.3 **Copper.**—Copper sheet shall comply with ASTM Designation B152, Copper Sheet, Strip, Plate, and Rolled Bar, or Federal Specification QQ-C-576, Copper Plates, Rolled Bars, Sheets, and Strips, and have a minimum thickness of not less than 0.020 inch (16 ounces per square foot). Hard temper (commercial cornice temper) copper shall be used for gutters, conductor pipe or wherever stiffness is required. Otherwise, soft temper (commercial roofing temper) copper shall be used.

4.4 **Stainless Steel.**—The items listed in Table 1 shall be fabricated from Type 301 stainless steel, and shall be not less than 0.015 (28 gage)<sup>5</sup> inch in thickness. Accessories shall be of Type 301 or Type 302 stainless steel. The types designated are from the table of Standard Types of Stainless Steel and Heat Resisting Steels published in the

<sup>1</sup> American Society for Testing and Materials, 1916 Race Street, Philadelphia 3, Pa.  
<sup>2</sup> Federal Supply Service, General Services Administration, Washington 25, D.C.  
<sup>3</sup> American Iron and Steel Institute, 140 E. Forty-second St., New York 17, N.Y.  
<sup>4</sup> Galvanized Sheet Gage (based on U.S. Standard Gage) within commercial tolerances as published by the American Iron and Steel Institute.  
<sup>5</sup> U.S. Standard Gage within commercial tolerances as published by the American Iron and Steel Institute.

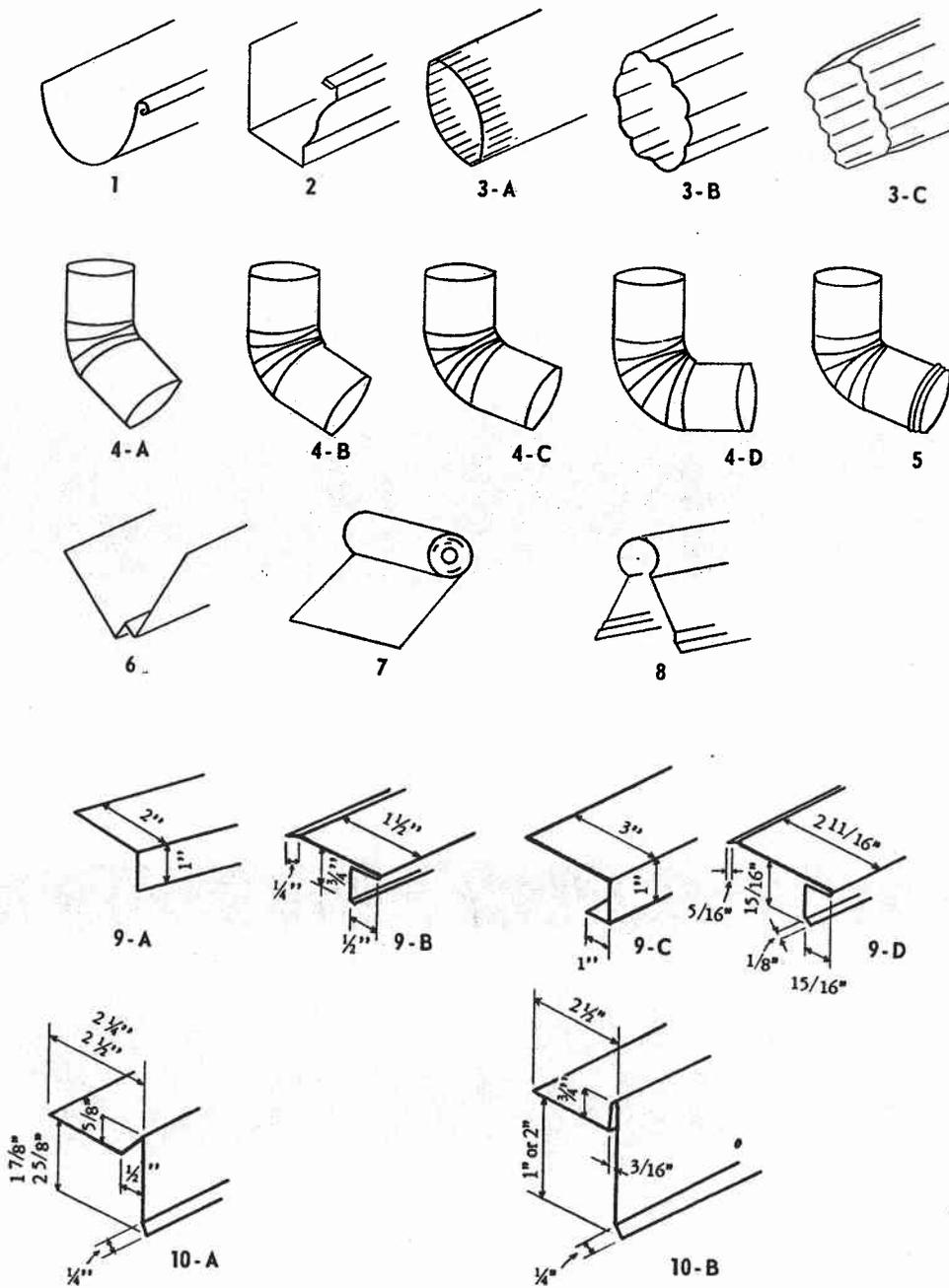


Fig. 1. Illustrations of Standard Stock Roof Drainage Products.

Steel Products Manual for Stainless and Heat Resisting Steels of the American Iron and Steel Institute.

**4.5 Aluminum.**—Wrought aluminum alloys used in the fabrication of roof drainage products shall fall within the composition limits given in Table 2.

TABLE 2.—Composition Limits of Wrought Aluminum Alloys

Element	Percent (maximum)
Silicon.....	1.5
Magnesium.....	6.0 total
Manganese.....	
Chromium.....	1.0
Iron.....	0.4
Copper.....	1.0
Zinc.....	0.5 total
Others.....	
Balance Aluminum.	

These limits apply to both bare products and the core of clad products. The cladding of clad products shall be within the same limits except that the maximum zinc limit may be 2.5 percent in order to assure that the cladding is anodic to the core. Special wrought alloys with silicon content up to 7.0 percent may be provided for non-structural uses where a special appearance is desired.

The minimum thickness and tensile strengths shall be in accordance with Table 3.

TABLE 3.—Minimum Thicknesses and Tensile Strengths of Aluminum Products

Item	Thickness <sup>1</sup>		Minimum tensile strength
	Inch	Lb./sq. in.	
Gutters, and gutter fittings.....	0.027	20,000	
Conductor pipe, elbows and shoes.....	0.020	20,000	
Valleys and flashings.....	0.019	20,000	
Ridge rolls, roof edgings, gravel stops.....	0.024	20,000	

<sup>1</sup> The thicknesses shown are nominal thicknesses. Actual minimum thicknesses may be 0.002 inch less to allow for rolling tolerances.

**4.6 Terne Plate.**—Items listed in Table 1, fabricated from terne plate (lead-tin alloy coated steel), shall comply with Federal Specification QQ-T-191, Terne Sheets (Long Ternes), or QQ-T-201, Terne, Plate for Roofing (Roofing Terne). When the first specification applies, the thickness or weight of the base metal shall be not less than 30 gage (long terne gage) and the weight of the coating shall be 1.45 ounces per square foot. When the latter specification applies, the weights of the base metal shall be either 107 pounds or 135 pounds per *single* base box and the weight of the coating shall be 40 pounds *double* base box.

## 5. IDENTIFICATION AND MARKING

**5.1** In order to assure the purchaser that he is getting roof drainage products of the quality specified herein, producers may individually or in concert with their trade associations, issue certificates for each shipment or grade-mark each item by stamp, brand or label as

conforming to this standard. The following wording is recommended for the label:

This roof drainage product complies with all the requirements of Commercial Standard CS244-62 as developed by the trade under the Commodity Standards procedures, and issued by the U.S. Department of Commerce.

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(Name of Manufacturer)

### **HISTORY OF PROJECT**

The first edition of the Simplified Practice Recommendation covering eaves trough and conductor pipe was approved for promulgation in 1925 and became effective that same year. Since that time the industry has maintained the program abreast of changing conditions through revisions, the present one being the fifth. The four previous revisions, with a summary of changes accomplished by each, are covered in editions of the recommendation bearing the designations R29-25, R29-39, R29-49 and R29-51 respectively.

### **CURRENT EDITION**

In August 1957, the Technical Committee of the Roof Drainage Manufacturers' Institute, upon reviewing the last issue of the Simplified Practice Recommendation, proposed a revision to bring it in line with current-day products. Specifically the Committee proposed that the title be changed to read "Roof Drainage Products" since this more nearly defines the items covered, that formed and rolled valleys, plain ridge rolls, roof edgings and gravel stops be added as well as products fabricated from "terne" material, and to include illustrations as aids in identifying the various products.

Upon the approval of a majority of the Standing Committee, the proposal was mailed to the industry for written acceptance in May 1958. The industry's response indicated that additional studies should be made, particularly in regard to items fabricated from aluminum. The Technical Committee, acting in accordance with the industry's wishes, conducted further studies. After completing its studies, the proposal submitted by the Committee, contained not only the simplified list of stock items shown in Table 1, but quality requirement for the basis metals from which they are fabricated as well.

Assisted by the Commodity Standards Division, the Committee decided the revision should be issued as a new Commercial Standard to supersede the Simplified Practice Recommendation.

Simplified Practice Recommendations do not cover quality or test requirements, nor do they provide for a means of labeling or certifying those items that comply. For this reason the decision was made to issue the revision as a Commercial Standard. In preparing this issue, the Technical Committee related the quality criteria as closely as possible with the existing requirements established by the Federal Housing Administration's Minimum Property Standards so as to provide the building industry with a complete and detailed document on roof drainage products for its guidance.

## STANDING COMMITTEE

The following individuals comprise the membership of the standing committee, which is to review, prior to circulation for acceptance, revisions proposed to keep the standard abreast of progress. Comment concerning the standard and suggestions for revision may be addressed to any member of the committee or to the Commodity Standards Division, Office of Technical Services, U.S. Department of Commerce which acts as secretary for the committee.

E. J. CULLEN, Manager of Sales, Sheets and Roofing Products Sales Div., Inland Steel Products Co., P. O. Box 393, Milwaukee 1, Wis. (Chairman)  
FRANK KRAMER, Kramer Sheet Metal Works, 2585 South 33d St., Milwaukee 7, Wis. (Representing the Sheet Metal Contractors' National Assn., Inc.)  
A. J. BECKER, Ohio Valley Hardware and Roofing Co., Evansville, Ind.  
JOHN H. ZITTLE, Quaker State Metal Co., P. O. Box 1167, Lancaster, Pa.  
FRANK S. NEAL, Wheeling Corrugating Co., Wheeling, W. Va.  
A. B. LEWIS, Palmer-Donavin Manufacturing Co., 575 Olenstrangy River Road, Columbus, Ohio

Project Manager: E. J. McCamley, Commodity Standards Division, Office of Technical Services, U.S. Department of Commerce.  
Technical Advisor: William C. Cullen, Building Research Division, National Bureau of Standards.

## ACCEPTORS

The manufacturers, distributors, users and others listed below have individually indicated in writing their acceptance of this Commercial Standard prior to its publication. The acceptances indicate an intention to utilize the standard as far as practicable, but reserve the right to depart from it as may be deemed desirable. The list is published to show the extent of recorded public support for the standard, and should not be construed as indicating that all products made by the acceptors actually comply with its requirements.

Products that meet all requirements of the standard may be identified as such by a certificate, grade mark, or label. Purchasers are encouraged to require such specific evidence of compliance, which may be given by the manufacturer whether or not he is an acceptor.

### ASSOCIATIONS

(General Support)

Associated General Contractors of America, Inc., Washington, D.C.

Roof Drainage Manufacturers Institute, Chicago, Ill.

### FIRMS AND OTHER INTERESTS

Adams Builders Wholesale, Quincy, Ill.  
Adler Warehouse and Sales, Inc., Joliet, Ill.  
Alamo Iron Works, San Antonio, Tex.

Alexander Warehouse & Sales Co., Chicago, Ill.

Almo Lumber Co., Momence, Ill.  
Ames-Frey Co., Los Angeles, Calif.  
Askue Supply Co., Cleveland, Ohio

Barnes Metal Products Co., Chicago, Ill.

Bass & Co., Hopkinsville, Ky.  
Berger Bros. Co., Philadelphia, Pa.  
BHM Building Materials, Inc., Springfield, Ill.

Bluefield Supply Co., Bluefield, W. Va.  
Boca Chica Hardware Co., Brownsville, Tex.  
Bramlet & Co., Inc., Peoria, Ill.  
Buhrman-Pharr Hardware Co., Texarkana, Ark.

Building Material Products Distributors, Inc., Philadelphia, Pa.

Building Materials Wholesale, Inc., Wilmington, Del.  
Busser Supply Co., Lewisburg, Pa.

Ceco Steel Products Corp., Cicero, Ill.  
Central Dealers Service, Jefferson City, Mo.  
Clevenger Roofing and Sheet Metal Co., Lima, Ohio  
Conner Manufacturing Co., Louisville, Ky.  
Craver Industries, Inc., Charleston, S.C.

Danser Hardware & Supply Co., Weston, W. Va.

Detroit City Engineer's Office, Detroit, Mich.  
Dowden Roofing and Metal Co., Natchitoches, La.  
Dreisbachs, C., Sons, Inc., Lewisburg, Pa.  
Dutton-Jainson Co., Hastings, Neb.

Eastern Distributors Co., Inc., Philadelphia, Pa.

Eastern Pennsylvania Supply Co., Wilkes-Barre, Pa.  
Emery-Waterhouse Co., Portland, Me.  
Evans & Rettig Lumber Co., Grand Rapids, Mich.

Farwell, Ozmun, Kirk & Co., St. Paul, Minn.  
Follansbee Steel Corp., Follansbee, W. Va.  
Fort Roofing & Sheet Metal Works, Sumter, S.C.

Frederic Co., Inc., Contractors, St. Louis, Mo.

Fries, Beall & Sharp Co., Inc., Springfield, Va.

Galvan Manufacturing Co., New Albany, Ind.  
Garnich, Emil, & Sons Hardware Co., Ashland, Wis.  
Gilbert Supply Co., Utica, N.Y.  
Globe Roofing Co., Inc., Kenosha, Wis.

Hall Supply Co., Grand Rapids, Mich.  
Handy, N. B., Lynchburg, Va.  
Hasson-Bryan Hardware Co., Morristown, Tenn.  
Hawkeye Building Supply, Lincoln, Neb.  
Henkle & Joyce Hardware Co., Lincoln, Neb.  
Herzog Supply Co., Inc., Kingston, N.Y.  
Hill's Heating Service, Story City, Iowa  
Hoye, Warren F., Inc., Springfield, Mass.  
Hunt & Mottet Co., Tacoma, Wash.

Ingold Co., Inc., Hickory, N.C.  
Inland Steel Products Co., Milwaukee, Wis.  
International Paper Co., Long-Bell Div., End, Okla.

Jenkins Wholesale Supply Co., Inc., N. Wilkesboro, N.C.

Kahl-Holt Co., Baltimore, Md.  
Keith-Simmons Co., Inc., Nashville, Tenn.  
Kelley Manufacturing Co., Houston, Tex.  
Klauzer Manufacturing Co., Dubuque, Iowa  
Kraft Wholesale, Inc., Boston, Mass.

Labeled Metal Products, Div. of Howe Sound Co., Broadview, Ill.  
Larson Hardware Co., Sioux Falls, S.D.  
Lee Hardware Co., Salina, Kans.  
LeRoy Roofing Co., Harrisburg, Pa.  
Lewers & Cooke, Ltd., Honolulu, Hawaii  
Lumbermen's Supply Co., Sioux Falls, S. Dak.  
Lumbermens Wholesale Supply Corp., Indianapolis, Ind.  
Lumberyard Suppliers, Inc., Peoria, Ill.  
Lyons, Conklin & Co., Inc., Baltimore, Md.

McClung, C. M., & Co., Inc., Knoxville, Tenn.  
McCormick, Wm., F., York, Neb.  
McGowin-Lyons Hardware & Supply Co., Mobile, Ala.  
Meissel Hardware & Supply Co., Bay City, Mich.  
Miller Bros. Hardware Co., Richmond, Ind.  
Miller, C. H., Hardware Co., Huntingdon, Pa.  
Miller-Miller & Associates, Architects, Terre Haute, Ind.  
Mitchell-Powers Hardware Co., Inc., Bristol, Va.  
Modern Materials, Inc., Los Angeles, Calif.  
Moncrief-Lenoir Manufacturing Co., Houston, Tex.  
Montana Mercantile Co., Missoula, Mont.  
Morley Bros., Saginaw, Mich.  
Morley-Murphy Co., Green Bay, Wis.  
Moskowitz Bros. Co., Newark, N.J.

New Delphos Manufacturing Co., Delphos, Ohio  
Nichols Wire & Aluminum Co., Davenport, Iowa  
Northeast Roofing Supply Co., Philadelphia, Pa.  
Norton Hardware Co., Norton, Va.

Obdyke, Benjamin P., Inc., Philadelphia, Pa.  
Olson, Henry A., Inc., Poughkeepsie, N.Y.  
O'Neill McNamara Hardware Co., Vicksburg, Miss.

Palmer-Donavin Manufacturing Co., Columbus, Ohio  
Palmer-Donavin Manufacturing Co., Lima, Ohio  
Patzig Testing Laboratories, Des Moines, Iowa  
Peden Iron & Steel Co., Houston, Tex.  
Phillips, I. W., & Co., Tampa, Fla.  
Phillips Hardware Co., Cambridge, Md.  
Pickard Roofing Co., Inc., Durham, N.C.

Potts-Farrington Co., Philadelphia, Pa.  
Powell, Benjamin, Sons, Inc., Springfield, Mass.  
Prairie Wholesale Supply Co., Springfield, Ill.

Quad City Roofing Co., Granite City, Ill.  
Quaker State Metals Co., Lancaster, Pa.

Rans, Bob, Wholesale Co., Inc., South Bend, Ind.  
Reese Central Wholesale, Inc., Indianapolis, Ind.  
Reeves Steel and Manufacturing Co., Dover, Ohio  
Republic Steel Corp., Berger Div., Canton, Ohio  
Roanoke Hardware Co., Roanoke, Va.  
Robling Building Materials Co., Grand Rapids, Mich.  
Rodd, Major L., & Son, Inc., Concord, N.H.  
Romig Roofing Co., St. Clairsville, Ohio

Sabine Supply Co., Orange, Tex.  
St. Joseph Builders Supply Co., St. Joseph, Mo.  
Salt Lake Hardware Co., Salt Lake City, Utah  
Schlatter Hardware Co., Inc., Fort Wayne, Ind.  
Sears, Roebuck and Co., Chicago, Ill.  
Sheet Metal Manufacturing Co., Inc., Brooklyn, N.Y.  
Smith, W. H., Hardware Co., Parkersburg, W. Va.  
Smither, Henry C., Roofing Co., Inc., Indianapolis, Ind.  
Southwestern Roofing and Sheet Metal Co., Oklahoma City, Okla.  
Spicola Hardware Co., Inc., Tampa, Fla.  
Spring Sheet Metal & Roofing Co., Inc., Rochester, N.Y.  
Standard Metal Fabricating Co., Omaha, Neb.  
Stelwagon Manufacturing Co., Philadelphia, Pa.  
Stephens Hardware Co., Moberly, Mo.  
Stratton & Terstegge Co., Louisville, Ky.  
Summers Hardware & Supply Co., Johnson City, Tenn.  
Superior Metal Fabricating Co., Niles, Ohio

Thomson-Diggs Co., Sacramento, Calif.  
Tiffin Art Metal Co., Tiffin, Ohio  
Townley Metal & Hardware Co., Kansas City, Mo.

United States Testing Co., Inc., Hoboken, N.J.

Vorvys Bros., Inc., Columbus, Ohio

Wallace, William, Co., Belmont, Calif.  
Watts Hardware & Supply Co., San Antonio, Tex.  
Wausau Supply Co., Wausau, Wis.  
Wheeling Corrugating Co., Wheeling, W. Va.  
Whitaker & Mattson, Inc., Rapid City, S.D.  
Whitney Building Products, Inc., Boston, Mass.  
Wimsatt Bros., Inc., Louisville, Ky.  
Winter Hardware Co., Billings, Mont.  
Wyatt, Job P., & Sons, Raleigh, N.C.

York Corrugating Co., York, Pa.

Zero Co., Cincinnati, Ohio

#### U.S. GOVERNMENT

Department of Health, Education and Welfare, Washington, D.C.  
U.S. Department of the Interior, Bureau of Indian Affairs, Aberdeen, S.D.  
U.S. Department of the Interior, Property & Supply Branch, Washington, D.C.  
U.S. Department of the Interior, National Park Service, Washington, D.C.  
Veterans Administration, Washington, D.C.

# ACCEPTANCE OF COMMERCIAL STANDARD

## CS244-62 Roof Drainage Products

If acceptance has not previously been filed, this sheet properly filled in, signed, and returned will provide for the recording of your organization as an acceptor of this Commercial Standard.

Date \_\_\_\_\_

Commodity Standards Division  
Office of Technical Services  
Business and Defense Services Administration  
U. S. Department of Commerce  
Washington 25, D. C.

**WITHDRAWN**

Gentlemen:

We believe that this Commercial Standard constitutes a useful standard of practice, and we individually plan to utilize it as far as practicable in the

production<sup>1</sup>      distribution<sup>1</sup>      purchase<sup>1</sup>      testing<sup>1</sup>  
of this commodity.

We reserve the right to depart from the standard as we deem advisable.

We understand, of course, that only those articles which actually comply with the standard in all respects can be identified or labeled as conforming thereto.

Signature of authorized officer \_\_\_\_\_  
(In ink)

(Kindly typewrite or print the following lines)

Name and title of above officer \_\_\_\_\_

Organization \_\_\_\_\_  
(Fill in exactly as it should be listed)

Street address \_\_\_\_\_

City, zone, and State \_\_\_\_\_

<sup>1</sup> Underscore the applicable words. Please see that separate acceptances are filed for all subsidiary companies and affiliates which should be listed separately as acceptors. In the case of related interest, trade associations, trade papers, etc., desiring to record their general support, the words "General support" should be added after the signature.

(Cut on this line)

## TO THE ACCEPTOR

The following statements answer the usual questions arising in connection with the acceptance and its significance:

1. *Enforcement.*—Commercial Standards are commodity specifications voluntarily established by mutual consent of those concerned. They present a common basis of understanding between the producer, distributor, and consumer and should not be confused with any plan of governmental regulation or control. The United States Department of Commerce has no regulatory power in the enforcement of their provisions, but since they represent the will of the interested groups as a whole, their provisions through usage soon become established as trade customs, and are made effective through incorporation into sales contracts by means of labels, invoices, and the like.

2. *The acceptor's responsibility.*—The purpose of Commercial Standards is to establish, for specific commodities, nationally recognized grades or consumer criteria, and the benefits therefrom will be measurable in direct proportion to their general recognition and actual use. Instances will occur when it may be necessary to deviate from the standard and the signing of an acceptance does not preclude such departures; however, such signature indicates an intention to follow the standard, where practicable, in the production, distribution, or consumption of the article in question.

3. *The Department's responsibility.*—The major function, performed by the Department of Commerce in the voluntary establishment of Commercial Standards on a nationwide basis is fourfold: First, to act as an unbiased coordinator to bring all interested parties together for the mutually satisfactory adjustment of trade standards; second, to supply such assistance and advice as past experience with similar programs may suggest; third, to canvass and record the extent of acceptance and adherence to the standard on the part of producers, distributors, and users; and fourth, after acceptance, to publish and promulgate the standard for the information and guidance of buyers and sellers of the commodity.

4. *Announcement and promulgation.*—When the standard has been endorsed by a satisfactory majority of production or consumption in the absence of active, valid opposition, the success of the project is announced. If, however, in the opinion of the standing committee or of the Department of Commerce, the support of any standard is inadequate, the right is reserved to withhold promulgation and publication.