



WORLD GUTTER SYSTEM

PRODUCT GUIDE

05

ABOUT SLATE AND COPPER SALES

Slate and Copper Sales Co. goes to great lengths to offer superior products at reasonable prices. We stand behind all of our products and our knowledgeable staff is always happy to assist you. Our products provide easy installation, optimum performance, and ultimate beauty.

Our main office, production facility, and warehouse are all located in Erie, Pennsylvania. This affords us convenient access to road, rail, air and waterway transportation.

Slate and Copper Sales Co. ships nationally and overseas. We offer complete technical support for architects, builders, contractors, first timers, and the do-it-yourself homeowner. We offer direct shipping and preferred pricing.

Slate and Copper Sales Co. supplies, distributes, and manufactures the highest quality and most economical roof drainage systems and accessories. Our World Gutter System is manufactured exclusively to meet all gutter requirements. With perfectly fitted pieces, the World Gutter System installs easier than any other half round gutter system in the world, hence the name World Gutter System. The World Gutter System offers not only exceptional strength and durability, but also absolute beauty in design. World Gutter System half round gutter & downspout is available in (.65mm) 18 ounce, (.7mm) 20.44 ounce, and (.8mm) 23.36 ounce. Only the (.7mm) 20.44 ounce gutter and downspout material is available as a stock item. World Gutter System accessories components such as the flat & spherical end caps, inside & outside miters, plain cup style & star drop outlets, inline cleanouts, and seamless elbows are all produced from (.65mm) 18 ounce material. Our WGS accessories are thicker than the industry standard 16 ounce accessories you get with our competitor's gutter systems. The World Gutter System gutter hangers, downspout hangers, leaf guard system, and wire strainers are produced from thicker material more durable material. World Gutter System is available in Copper and Zinc as a stock item, and in other metals as a non-stock special order item. Standard American traditional single bead half round, and k-style (Ogee) profiles are available in 16 and 20 ounce copper, 16 ounce lead coated copper, stainless steel, 24 & 26 gauge galvanized steel, 26 gauge paint grip galvanized steel, .032 mill finished aluminum, and .032 high gloss white and royal brown painted aluminum. Double bead half round, pitched apron half round and K-style (Ogee) profiles, and custom copper gutter profiles are also available.

Slate and Copper Sales Co. also supplies stock and custom ornamental pieces and accessories including: cupolas, finials, dormer vents, decorative leader heads / conductor boxes, copper rain chains, clay and metal chimney tops, ridge cresting, drip edges and flashings, sheet & coil, many styles of decorative gutter & downspout hangers, snow guards, copper nails, copper rivets, solder, flux, and much more including special decorative accent pieces for your home or garden.

Slate and Copper Sales Co. has an extensive product and manufacturer database, so that no item may be left unfound. We represent artists and craftsman from all over the world. These artisans can manufacture special one-of-a-kind accent pieces for any of your project's requirements.

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WORLD GUTTER SYSTEM



COPPER AND ZINC GUTTERS ADD TIMELESS ELEGANCE TO YOUR ARCHITECTURAL PROJECT. THEY ARE BEAUTIFUL, EASY TO INSTALL AND VERY DURABLE.

The World Gutter System is manufactured exclusively for Slate and Copper Sales Co. to meet all of your specific needs. We stand behind all of our products with full technical support at Slate and Copper Sales.

The World Gutter System is the strongest stock half round copper or zinc gutter system available anywhere. Gutters and downspouts are available in 20.44-ounce copper as a stock item. Thicker, stronger, and even more durable 23.36-ounce (.08mm) copper and zinc gutters are available as a special order item. The World Gutter System's gutter hangers are produced from copper or zinc bar stock, which is 3/16" thick and 1-1/8" wide. These superior gutter hangers are so strong that you can literally do pull-ups off them.

With perfectly fitting pieces, this gutter system is the world's easiest installed half round gutter system. The following are the key components of the World Gutter System:

- 20.44 Oz. Gutters
- Fascia and Roof Hangers
- Flat & Spherical End Caps
- Seamless Miters
- 20.44 Oz. Seamless Downspouts
- Star or Plain Drop Outlets
- Seamless Elbows
- Downspout Brackets
- Downspout Connectors
- Heavy Duty Wire Strainers

WORLD GUTTER SYSTEM ACCESSORIES:

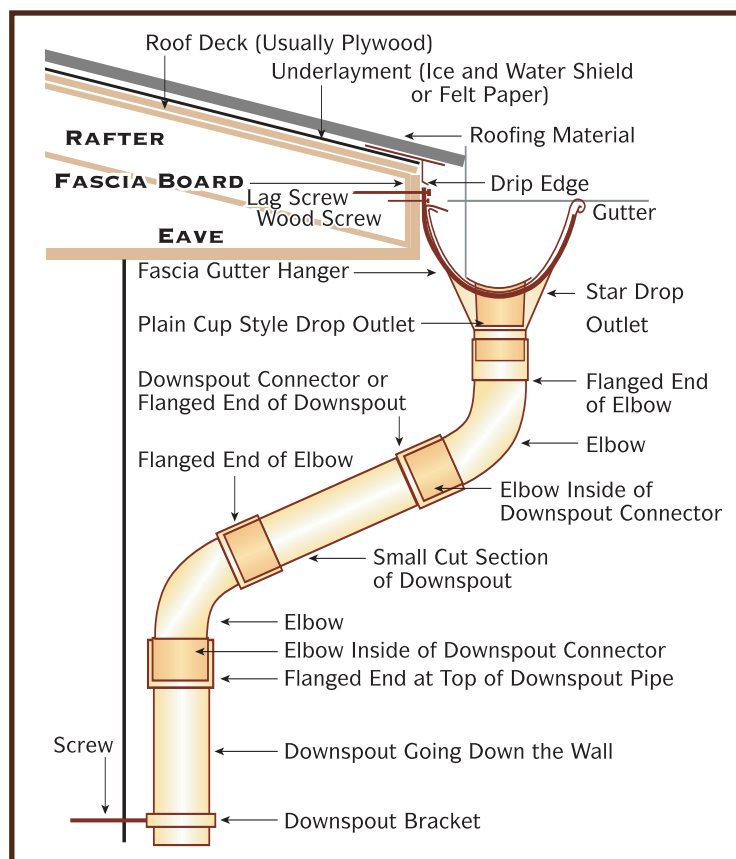
- Leader Heads
- Rain Chains
- Inline Cleanouts
- Gutter Screens
- Installation Tools And Materials
- Expansion Joints

COLORS

Copper turns different shades and colors over time when exposed to the oxygen in the atmosphere. In a normal environment, copper will turn from a shiny new penny look to dark brown within the first year. Over time, copper will turn into a beautiful patina that changes from green to a darker greenish color and eventually to a blue-green color. The patina forms a protective coating that greatly increases the life of the copper.

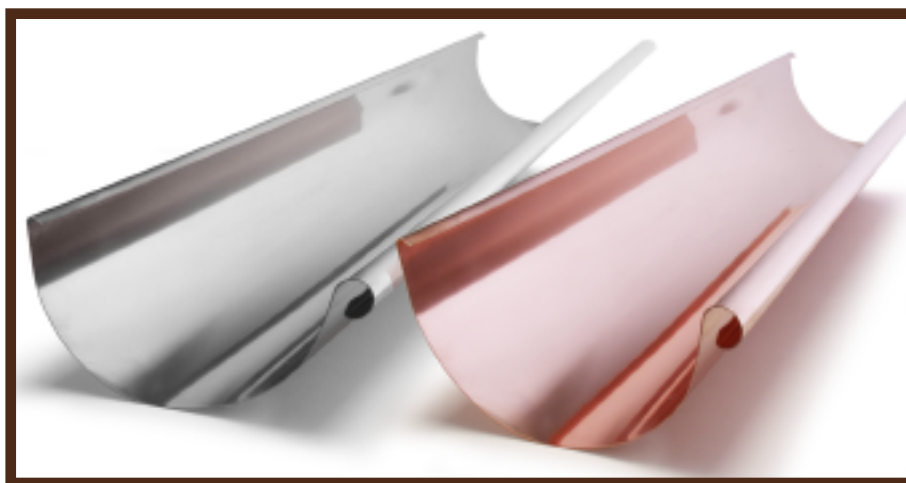
Slate and Copper Sales provides products to control the appearance of the copper. Copper Shield protects the original finish and prevents brown color. Patina products are also available to turn the gutter system to a green or blue/green color.

There simply isn't a better half round copper or zinc gutter system available anywhere in the world.



Basic Installation Of The World Gutter System Components

WORLD GUTTER SYSTEM COMPONENTS



Slate and Copper Sales Company's World Gutter System single bead half round gutter profile is unique in its design. Notice the back lip on the gutter this is an overflow lip. The back lip also helps to lock the gutter into position when overlapping one gutter section into another. Another beneficial feature of the design is the front bead. The front bead is a slightly open design making installation quicker and easier while still providing ultimate strength and beauty. World Gutter System Single Bead Half Round Gutter is available in (.65mm) 18 ounce (special order), (.7mm) 20.44 ounce (in stock), and thicker more durable (.8mm) 23.36 ounce (special order) as well. Only the (.7mm) 20.44 ounce is available as a stock item. Standard gutter lengths are 3 meter 10', and 5.5 meter 18' for the 5", 6", and 7.6" half round profiles.

EUROPEAN STYLE HALF - ROUND GUTTER

SIZE	LENGTH	WEIGHT	DESCRIPTION	MATERIALS					
				CU	ITEM CODE	PRICE /FT.	ZN	ITEM CODE	PRICE /FT.
7.6 Inch	10'	20.44 oz.	Half-Round Gutter	•	ED7.62010		*	EDZ7.62010	
7.6 Inch	18'	20.44 oz.	Half-Round Gutter	•	ED7.62018		*	EDZ7.62018	
7.6 Inch	10'	18 oz.	Half-Round Gutter	*	ED7.62410		*	EDZ7.62410	
7.6 Inch	18'	18 oz.	Half-Round Gutter	*	ED7.62418		*	EDZ7.62418	
6 Inch	10'	20.44 oz.	Half-Round Gutter	•	ED62010		•	EDZ62010	
6 Inch	18'	20.44 oz.	Half-Round Gutter	•	ED62018		•	EDZ62018	
6 Inch	10'	18 oz.	Half-Round Gutter	*	ED62410		*	EDZ62410	
6 Inch	18'	18 oz.	Half-Round Gutter	*	ED62418		*	EDZ62418	
5 Inch	10'	20.44 oz.	Half-Round Gutter	•	ED52010		*	EDZ52010	
5 Inch	18'	20.44 oz.	Half-Round Gutter	•	ED52018		*	EDZ52018	
5 Inch	10'	18 oz.	Half-Round Gutter	*	ED51810		*	EDZ51810	
5 Inch	18'	18 oz.	Half-Round Gutter	*	ED18418		*	EDZ51818	

• Stock Item

* Custom Order Item

Cu = Copper

Zn = Zinc

[CLICK HERE FOR INSTALLATION INSTRUCTIONS.](#)

WORLD GUTTER SYSTEM COMPONENTS



Slate and Copper Sales Company's World Gutter System expansions joints are unique in their design. They are unique because no other gutter system offers such an easily installed way to allow for expansion of a gutter. The expansion joints are a one unit piece that gets soldering into the gutter system, and has a rubber membrane that allows for expansion and contraction of the gutter. Metal gutter will expand and contract as it heats up and cools down throughout the days, weeks, and years. So, it is essential to provide all metal guttering with an expansion joint for every 50' of continuous gutter length. Continuous gutter can include one straight run of 50 feet, or several straight sections with inside and outside corners connected together that add up to 50' or more such as on a hip roof.

EXPANSION JOINTS FOR HALF ROUND GUTTER								
SIZE	WEIGHT	DESCRIPTION	MATERIALS					
			CU	ITEM CODE	PRICE	ZN	ITEM CODE	PRICE
7.6 Inch	18 oz.	Expansion Joint	•	ED7.6EXP		*	EDZ7.6EXP	
6 Inch	18 oz.	Expansion Joint	•	ED6EXP		*	EDZ6EXP	
5 Inch	18 oz.	Expansion Joint	•	ED5EXP		*	EDZ5EXP	

• Stock Item

* Custom Order Item

Cu = Copper

Zn = Zinc

WORLD GUTTER SYSTEM COMPONENTS



Slate and Copper Sales Company's World Gutter System Roof and Fascia Hangers are made from 3/16" thick X 1-1/8" wide bar stock. These superior gutter hangers are so strong that you can literally do pull-ups off of them. The pressed raised ridge down the center of the underside of the hanger helps with the overall strength value of the hangers. The strength value of the hangers makes it a great choice especially in snow and ice environments. The metal tabs in the front and back of the hanger allows for quick and easy installation. Simply place the gutter inside the hangers and fold the back tab down inside of the gutter, and the front tab up and around the front bead of the gutter. The tab design allows the gutter to expand and contract freely once inside of the hangers. Roof hangers get bent along the long shank with the roof hanger bending tool to the roof pitch and installed directly to the roof deck. Fascia hangers install directly to the fascia board. Recommended spacing can vary depending on snow and ice loads, but typically they can be installed on 2' centers in most areas of the country. For further information contact us at our office.

HALF - ROUND GUTTER HANGERS

SIZE	STOCK THICKNESS	STOCK WIDTH	DESCRIPTION	MATERIALS					
				CU	ITEM CODE	PRICE	ZN	ITEM CODE	PRICE
7.6 Inch	3/16"	1-1/8"	Fascia Hanger	•	ED7.6HF		*	EDZ7.6HF	
7.6 Inch	3/16"	1-1/8"	Roof Hanger	•	ED7.6HR		*	EDZ7.6HR	
6 Inch	3/16"	1-1/8"	Fascia Hanger	•	ED6HF		•	EDZ6HF	
6 Inch	3/16"	1-1/8"	Roof Hanger	•	ED6HR		•	EDZ6HR	
5 Inch	3/16"	1-1/8"	Fascia Hanger	•	ED5HF		•	EDZ5HF	
5 Inch	3/16"	1-1/8"	Roof Hanger	•	ED5HR		•	EDZ5HR	

• Stock Item

Cu = Copper

* Custom Order Item

Zn = Zinc

[CLICK HERE FOR INSTALLATION INSTRUCTIONS.](#)

WORLD GUTTER SYSTEM COMPONENTS



The seamless downspout offers a belled or flared end at the top of the downspout. This belled or flared end makes it very easy to overlap one downspout section into another, or an elbow into the belled end of the downspout. Seamless downspout is available in (.65mm) 18 ounce (special order), (.7mm) 20.44 ounce (in stock), and thicker more durable (.8mm) 23.36 ounce (special order) as well. Only the (.7mm) 20.44 ounce is available as a stock item. Standard downspout lengths are 3 meter 10', for the 3", and 4" plain round seamless profiles. Longer sections of downspout 5.5 meter 18' sections are available as a special order item. The downspout connector is a useful and easy way to join small sections of downspout together. The downspout connector simply slides into a cut section of downspout so it now has a belled end for easier installation.

SEAMLESS DOWNSPOUT

SIZE	LENGTHS	WEIGHT	DESCRIPTION	MATERIALS					
				CU	ITEM CODE	PRICE	ZN	ITEM CODE	PRICE
4 Inch	10'	20.44 oz.	Seamless Downspout	•	ED4DS		•	EDZ4DS	
3 Inch	10'	20.44 oz.	Seamless Downspout	•	ED3DS		•	EDZ3DS	

DOWNSPOUT CONNECTORS

SIZE	WEIGHT	DESCRIPTION	MATERIALS					
			CU	ITEM CODE	PRICE	ZN	ITEM CODE	PRICE
4 Inch	18 oz.	Downspout Connector	•	ED4CON		•	EDZ4CON	
3 Inch	18 oz.	Downspout Connector	•	ED3CON		•	EDZ3CON	

• Stock Item

* Custom Order Item

Cu = Copper

Zn = Zinc

Smaller and larger downspout and downspout connector available as special order.

CLICK HERE FOR DOWNSPOUT INSTALLATION INSTRUCTIONS.

CLICK HERE FOR DOWNSPOUT CONNECTOR INSTALLATION INSTRUCTIONS.

WORLD GUTTER SYSTEM COMPONENTS



The seamless elbows do not have any crimps in the bend like you traditionally see with other elbows. The seamless elbow design has a belled or flared end just like the seamless downspout making installation quicker, easier, and more attractive. Seamless elbows are available in (.65mm) 18 ounce material. Elbows are offered in 40, 72, and 85 degree angles. The 40 degree elbows are for eave offsets of 6" - 8" or less. The 72 degree elbows are for eave offsets of 12" - 30". The 85 degree elbows are for eave offsets of 30" or greater.

SEAMLESS DOWNSPOUT ELBOWS

SIZE	DEGREE	WEIGHT	DESCRIPTION	MATERIALS					
				CU	ITEM CODE	PRICE	ZN	ITEM CODE	PRICE
4 Inch	40	18 oz.	Seamless Elbow	•	ED440		•	EDZ440	
4 Inch	72	18 oz.	Seamless Elbow	•	ED472		•	EDZ472	
4 Inch	85	18 oz.	Seamless Elbow	•	ED485		*	EDZ485	
3 Inch	40	18 oz.	Seamless Elbow	•	ED340		•	EDZ340	
3 Inch	72	18 oz.	Seamless Elbow	•	ED372		•	EDZ372	
3 Inch	85	18 oz.	Seamless Elbow	•	ED385		*	EDZ385	

- Stock Item
 - * Custom Order Item
- Cu = Copper
Zn = Zinc

Smaller and larger elbows available as special order.

CLICK HERE FOR INSTALLATION INSTRUCTIONS.

WORLD GUTTER SYSTEM COMPONENTS



The downspout hanger consist of 2 pieces. One piece is the stainless steel or coated stainless steel bolt screw that attaches into the wall surface, and the other piece is the collar piece that attaches to the end of the bolt screw which actually holds the downspout onto the wall. The bolt screw is about 4" overall length we recommend screwing at least 1/2 to 3/4 of the bolt screw into the wall leaving a gap behind the downspout. The collar piece is hinged on one side and has a threaded eye wing nut on the other side to open the collar.

8" bolts are available for World Gutter System downspout brackets as a special order item.

DOWNSPOUT BRACKETS W/STAINLESS STEEL LAG BOLT							
SIZE	DESCRIPTION	MATERIALS					
		CU	ITEM CODE	PRICE	ZN	ITEM CODE	PRICE
4 Inch	Downspout Bracket & Lag Bolt	•	ED4DSB		•	EDZ4DSB	
3 Inch	Downspout Bracket & Lag Bolt	•	ED3DSB		•	EDZ3DSB	

• Stock Item

* Custom Order Item

Cu = Copper

Zn = Zinc

Downspout brackets for smaller and larger downspouts available as special order.

CLICK HERE FOR INSTALLATION INSTRUCTIONS.

WORLD GUTTER SYSTEM COMPONENTS



The star drop outlets are especially unique in their design providing beauty, function, with ease of installation. The star drop outlets require no riveting or soldering what so ever. They simply connect right onto the gutter. Prior to installation a hole is cut in the bottom of the gutter proportional to the downspout size so water can drain out. The plain cup style drop outlet is not as unique as the star outlet, but serves the same generalized purpose to drain water out of the bottom of the gutter. The cup style outlet needs to be soldered into the bottom of the gutter making it a water tight system.

GUTTER TO DOWNSPOUT STAR OUTLETS

GUTTER SIZE	DOWNSPOUT SIZE	WEIGHT	DESCRIPTION	MATERIALS					
				CU	ITEM CODE	PRICE	ZN	ITEM CODE	PRICE
7.6 Inch	4 Inch	18 oz.	Star Drop Outlet	•	ED7.64		*	EDZ7.64	
6 Inch	4 Inch	18 oz.	Star Drop Outlet	•	ED64		•	EDZ64	
6 Inch	3 Inch	18 oz.	Star Drop Outlet	*	ED63		*	EDZ63	
5 Inch	4 Inch	18 oz.	Star Drop Outlet	*	ED54		*	EDZ54	
5 Inch	3 Inch	18 oz.	Star Drop Outlet	•	ED53		•	EDZ53	

GUTTER TO DOWNSPOUT PLAIN DROP OUTLETS

SIZE	WEIGHT	DESCRIPTION	MATERIALS					
			CU	ITEM CODE	PRICE	ZN	ITEM CODE	PRICE
4 Inch	18 oz.	Plain Drop Outlet	•	ED4DROP		•	EDZ4DROP	
3 Inch	18 oz.	Plain Drop Outlet	•	ED3DROP		•	EDZ3DROP	

- Stock Item
 - * Custom Order Item
- Cu = Copper
Zn = Zinc

Outlets for smaller and larger downspout available as special order.

[CLICK HERE FOR STAR DROP OUTLET INSTALLATION INSTRUCTIONS.](#)

[CLICK HERE FOR PLAIN DROP OUTLET INSTALLATION INSTRUCTIONS.](#)

WORLD GUTTER SYSTEM COMPONENTS



Slate and Copper Sales Company's World Gutter System inside and outside miters are unique in their design. The miters are unique because of the seamless construction when compared to strip miters or seamed 2 piece miters. The one piece seamless miter design allows for a quicker installation with less soldering than a traditional 2 piece seamed miter. The only seams you have with the WGS miters are the 2 straight sections you join into the seamless miter. Inside miters are used in valleys, and outside miters are used at the hips.

HALF ROUND GUTTER MITERS								
SIZE	WEIGHT	DESCRIPTION	MATERIALS					
			CU	ITEM CODE	PRICE	ZN	ITEM CODE	PRICE
7.6 Inch	18 oz.	Inside Miter	•	ED7.6MIN		*	EDZ7.6MIN	
7.6 Inch	18 oz.	Outside Miter	•	ED7.6MOUT		*	EDZ7.6MOUT	
6 Inch	18 oz.	Inside Miter	•	ED6MIN		•	EDZ6MIN	
6 Inch	18 oz.	Outside Miter	•	ED6MOUT		•	EDZ6MOUT	
5 Inch	18 oz.	Inside Miter	•	ED5MIN		•	EDZ5MIN	
5 Inch	18 oz.	Outside Miter	•	ED5MOUT		•	EDZ5MOUT	

• Stock Item

* Custom Order Item

Cu = Copper

Zn = Zinc

[CLICK HERE FOR INSTALLATION INSTRUCTIONS.](#)

WORLD GUTTER SYSTEM COMPONENTS



World Gutter System end caps are available in 2 different very unique styles; the more traditional flat end caps, and the more contemporary European in flavor spherical end cap. The flat end caps come as lefts and rights. The spherical or rounded end cap is the most unique stock end cap available in the American market. The spherical end caps are universal and can be used on either end of the gutter.

HALF - ROUND GUTTER FLAT END CAPS

SIZE	WEIGHT	DESCRIPTION	MATERIALS					
			CU	ITEM CODE	PRICE	ZN	ITEM CODE	PRICE
7.6 Inch	18 oz.	Flat End Cap - Right	•	ED7.6ECR		*	EDZ7.6ECR	
7.6 Inch	18 oz.	Flat End Cap - Left	•	ED7.6ECL		*	EDZ7.6ECL	
6 Inch	18 oz.	Flat End Cap - Right	•	ED6ECR		•	EDZ6ECR	
6 Inch	18 oz.	Flat End Cap - Left	•	ED6ECL		•	EDZ6ECL	
5 Inch	18 oz.	Flat End Cap - Right	•	ED5ECR		•	EDZ5ECR	
5 Inch	18 oz.	Flat End Cap - Left	•	ED5ECL		•	EDZ5ECL	

HALF - ROUND GUTTER SPHERICAL END CAPS

SIZE	WEIGHT	DESCRIPTION	MATERIALS					
			CU	ITEM CODE	PRICE	ZN	ITEM CODE	PRICE
7.6 Inch	18 oz.	Spherical End Cap	•	ED7.6		*	EDZ7.6S	
6 Inch	18 oz.	Spherical End Cap	•	ED6S		•	EDZ6S	
5 Inch	18 oz.	Spherical End Cap	•	ED5S		•	EDZ5S	

• Stock Item

* Custom Order Item

Cu = Copper

Zn = Zinc

[CLICK HERE FOR FLAT END CAP INSTALLATION INSTRUCTIONS.](#)

[CLICK HERE FOR SPHERICAL END CAP INSTALLATION INSTRUCTIONS.](#)

WORLD GUTTER SYSTEM COMPONENTS



Slate and Copper Sales Company's leaf and debris components are all unique in their design. The inline cleanouts are unique in that it has a trap door on the front that can be opened to clean out leaves and debris from inside of the downspout. The leaf guard is unique being the heaviest gauge material available in a leaf guard. Wire strainers are also unique because they are produced from the heaviest gauge wire available in a wire strainer.

DOWNSPOUT INLINE CLEANOUTS

SIZE	LENGTH	WEIGHT	DESCRIPTION	MATERIALS					
				CU	ITEM CODE	PRICE	ZN	ITEM CODE	PRICE
4 Inch		18 oz.	Inline Cleanout	•	ED4INC		•	EDZ4INC	
3 Inch		18 oz.	Inline Cleanout	•	ED3INC		•	EDZ3INC	

GUTTER SCREENS

SIZE	LENGTH	WEIGHT	DESCRIPTION	MATERIALS					
				CU	ITEM CODE	PRICE	ZN	ITEM CODE	PRICE
7.6 Inch	6'-6"	20.44 oz.	Clip On Leaf Guard	•	ED7.6GG		*	EDZ7.6GG	
6 Inch	6'-6"	20.44 oz.	Clip On Leaf Guard	•	ED6GG		*	EDZ6GG	
5 Inch	6'-6"	20.44 oz.	Clip On Leaf Guard	•	ED5GG		*	EDZ5GG	

GUTTER TO DOWNSPOUT WIRE STRAINERS

SIZE	DESCRIPTION	MATERIALS							
		CU	ITEM CODE	PRICE	ZN	ITEM CODE	PRICE		
4 Inch	Wire Strainers	•	ED4WS			EDZ4WS	N/A		
3 Inch	Wire Strainers	•	ED3WS			EDZ3WS	N/A		

• Stock Item

* Custom Order Item

Cu = Copper

Zn = Zinc

Smaller and larger downspout cleanouts available as special order.

CLICK HERE FOR INLINE CLEANOUT INSTALLATION INSTRUCTIONS.

WORLD GUTTER SYSTEM COMPONENTS



Slate and Copper Sales Company's World Gutter System leader heads are unique in their design. The most unique feature of the World Gutter System leader head/conductor head is the star on the front of the leader head matching the star on the front of the star drop outlets. The leader heads are 8" wide X 13-1/4" tall with a 8-3/4" projection away from the wall, and produced from (.65mm) 18 ounce material. World Gutter System leader heads/conductor heads are pre-manufactured and available with a 3" or 4" round drop outlet only. The leader head dimensions are the same for both the 3" & 4" outlet.

Leader heads are not only an attractive feature to any gutter system, but serve several very important functional purposes as well. Leader heads (also called Leaders, Leader Boxes, Collectors, Collector Heads, Conductor Heads, Conductor Boxes, Scupper Heads, Catch Basins, or Bells) serve a variety of purposes such as collecting debris from the gutter, or collecting water from a scupper. They also function as an overflow for water, or ice build up during the winter. On tall downspouts they serve as a vacuum brake allowing more air volume to get sucked into the downspout pipe keeping the water flowing more efficiently. Usually, leader heads are purely for ornamentation adding architectural appeal.

LEADER HEADS								
OUTLET SIZE	WEIGHT	DESCRIPTION	MATERIALS					
			CU	ITEM CODE	PRICE	ZN	ITEM CODE	PRICE
4 Inch	18 oz.	Lawrence Leader Head	•	ED4LH		*	EDZ4LH	
3 Inch	18 oz.	Lawrence Leader Head	•	ED3LH		*	EDZ3LH	

• Stock Item

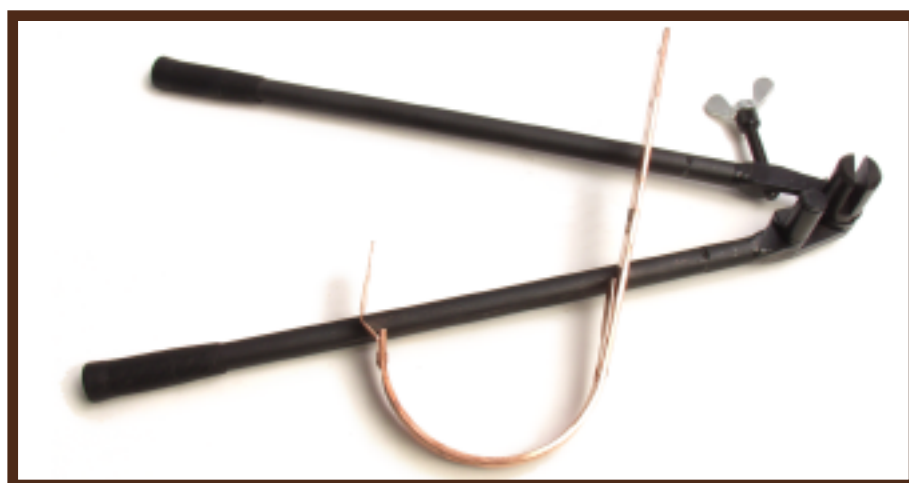
Cu = Copper

* Custom Order Item

Zn = Zinc

Outlets for smaller and larger downspout available as special order.

TOOLS & ACCESSORIES



WGS INSTALLATION TOOLS AND ACCESSORIES

QTY/SIZE	ITEM DESCRIPTION	STOCK ITEM	ITEM CODE	PRICE
1	Roof Hanger Bending Tool	•	EDRHBT	
1	Salt Tested Stainless Steel Screws	•	410SS	
1 Bag Of 100	Small Copper Rivets	•	CFRC/B42D	
1 Bag Of 100	Large Copper Rivets	•	CFRC/B44D	
1 Bag Of 100	Small Zinc Rivets	•	CFRS/S42D	
Any qty.	50/50 Lead Tin Solder	•	SOLDER50/50	
8 oz. bottle	Classic 100 Gel Flux	•	ST21-100-22	
16 oz. bottle	**Liquid Solder Flux	•	GCEFLUX	
1 kg. bottle	Felder Zinc Flux	•	FZFLUX	
1	Soldering Iron Kit	•	BBSIKIT	
1	Sal Ammoniac Tinning Block	•	ST20-201-72	
10"	Metal Cutting Blade	•	ATSFRLU90M010	
12"	Metal Cutting Blade	•	ATSFRLU90M012	
12 oz. Can	Aluma-Wax Lubricating Spray	•	ATSALUMA-WAX	
8 oz. Bottle	Weiman's Metal Creme	•	CLEAN	
8 oz. Bottle	Super Brite Instant Copper Plating Fluid	•	ST22-200-08	
12 oz. Can	Copper Shield	•	SWCS	
1 Kit	Patina Mix	•	CLEAN	
1	3" Downspout Reaming Tool	•	03DSRT3	
1	4" Downspout Reaming Tool	•	03DSRT4	

• Stock Item

* Custom Order Item

SLATE AND COPPER SALES COMPANY'S WORLD GUTTER SYSTEM INSTALLATION TOOLS AND ACCESSORIES ARE KEY COMPONENTS TO INSTALL THE DIFFERENT GUTTER SYSTEM PIECES.



The roof hanger bending tool is used to bend the World Gutter System roof hangers along the shank to the roof pitch.



Salt tested screws are available for both fascia and roof gutter hangers. Can be used with either copper or zinc gutter hangers. Screws are 1-1/2" long with Phillips head for driving. Screws are stainless steel with a light green coating. The coating is corrosive resistant tested against salt water. Sold by the screw, fascia hangers require 2 screws per hanger, and the roof hangers require 3 screws per hanger.



Copper rivets are available in 2 sizes small and large. The small copper rivets are 1/8" in diameter X 1/8" tall with a solid brass mandrel (pin). The large copper rivets are 1/8" in diameter X 1/4" tall with a solid brass mandrel (pin). Copper rivets are available in prepackaged 100 count bags.



Zinc rivets are available in 1 stock size small. The small zinc rivets are 1/8" in diameter X 1/8" tall. The steel rivet bodies are zinc plated with a dichromatic protective coating. The steel rivet bodies are zinc plated with a dichromatic protective coating. The carbon steel mandrels (pins) are plain finish with a corrosion protective coating. Zinc rivets conform to IFI (Industrial Fastener Institute) specification 114. Zinc rivets are available in prepackaged 100 count bags.



Solder is an essential part of soldering copper and zinc together. The tri-bar solder is a 50% lead and 50% tin alloy. The 50/50 tri-bar solder is available in 17" long sticks shaped like a triangle with each leg being 7/16" long on all three sides. Sold by the pound.



Flux is an essential part of soldering. Flux is the catalyst that helps solder stick to copper and zinc. Without flux solder will not stick to the copper or zinc. Classic 100 Gel Flux is only used for soldering NEW copper together. Classic 100 Gel Flux is the first truly odorless, non-smoking flux for copper and zinc soldering. It is easy to use, works with traditional and lead-free solders, and produces a smooth, shiny surface. Classic 100 Gel Flux cleans off quickly with water and is non-corroding after washing. Classic 100 Gel Flux is available in 8 ounce bottles.



Liquid Solder Flux is only used for soldering NEW copper together. Liquid Solder Flux is available in 16 fluid ounce bottles, and comes with its own application brush right inside of the cap.



Flux is an essential part of soldering. Flux is the catalyst that helps solder stick to copper and zinc. Without flux, solder will not stick to the copper or zinc. Felder Zinc Flux is only used for soldering zinc together. When choosing a flux for soldering zinc gutter, insist on Felder Zinc Flux. Felder Zinc Flux is available at Slate and Copper Sales Co. in 1 kilogram bottles. One kilogram is over 30 fluid ounces.



Soldering is an essential part of soldering together copper and zinc gutter. There are many methods of soldering together copper gutter, but it just so happens that a soldering iron is the best. Skilled craftsmen can make the solder seams look like overlapping quarters with a soldering iron. Soldering Iron Kit includes; 1 hand held soldering iron unit with a soldering copper, 1 connection hose 6' long, 1 regulator to attach to an acetylene B tank.



Sal Ammoniac Tinning Block cleans and tins soldering iron tips. Sal Ammoniac Tinning Blocks are available in 1/2 pound blocks.



Metal cutting blades are manufactured exclusive for the gutter industry to cut all types of metal gutter and downspout. Metal cutting blades give a clean factory cut. Metal cutting blades are available for 10" or 12" electric compound miter saws.



The Aluma-Wax lubricating spray is used with the metal cutting blades to lubricate the blade, and to maximize the life expectancy of the blade. Lubricate the front and back of the blade by spraying the blade while it is running with a few quick sprays. Lubricate the metal cutting blade once every 5 - 10 cuts made with the blade, or as needed. Aluma-Wax is available in 12 ounce aerosol spray cans.



Slate and Copper Sales Company has stopped using other brass and copper metal cleaners since we've found Weiman Metal Creme. Weiman Metal Creme will bring back that new copper shine, every time. Used to clean any and all types of copper and brass products. Use to polish copper pots and pans, copper indoor or outdoor light fixtures, copper candlestick holders, copper gutter, copper flashing, or copper specialty pieces such as copper cupolas, copper or brass finials, copper weather vanes, copper dormer vents, or copper counter tops after installation. Weiman's works on your old weathered copper and brass products just as easily and even more dramatically. We have cleaned many shop samples, and copper pieces that had years and years of oxidation to clean off. In one such

case, we borrowed a shop finial from one of our manufacturers to display at a Home Show we were in. We polished the old weathered copper finial, and after we sent it back to them they ended up buying two cases of Weiman Metal Creme for themselves. Weiman Metal Creme is available in 8 ounce bottles.



Super Brite Instant Copper Plating Fluid applies a thin coat of copper to solder seams. No equipment required. Just buff solder with abrasive pad; brush on fluid with a clean flux brush, wipe off the solution quickly with a clean paper towel, rinse the surface with fresh water, and dry with clean paper towels. A must for any copper gutter installer. Caution: Keep out of the reach of children. Contains Copper Sulfate. Super Brite Instant Copper Plating Fluid is available in 8 ounce bottles.



Copper Shield is specifically formulated to protect and preserve copper, brass, and bronze. Copper Shield contains UV and under film corrosion inhibitors. Product will perform for 10 - 12 years before re-application would be needed. Available in convenient 12 ounce aerosol spray paint cans.

Directions for use: Surface must be free of dirt, grease, wax, grime, and flux. SHAKE WELL for 2 minutes. Hold can approximately 10" away from application area while spraying. Depress Valve Completely to avoid reduced pressure resulting in faulty spray. Avoid sags and runs by using short dusting strokes.

Three light coats will give the best results. Allow Copper Shield to dry completely before applying each coat. For best results, apply when temperature is between 65 to 95 degrees Fahrenheit. To prevent clogging, clean nozzle after each use. Invert can and spray for approximately three seconds until mist becomes clear.



Patina is a beautiful ending to the life and beauty of copper, and of course decades of oxygen exposure. Now you don't have to wait decades, just overnight. The patina mix provides an authentic patina finish. Can be applied to new copper in full concentration. For best results, scrub all copper prior to installation, and well before application of the patina solution, with scotchbrite type steel wool pad and water. After copper has weathered outdoors for about a year, the patina solution is slow to react, if at all, to the copper even in full concentration. Makes 5 gallons. All you add is water. Approximately enough to treat 300 lineal feet of copper gutter and downspout, or 600 square feet of roof surface.

Contents:

Dry Package - Ammonium Sulfate, Ammonium Chloride, Copper Sulfate.

Liquid Package - Surfactant, Water, Concentrated Ammonia.



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