



HusseyCopper

The Element of Trust®

Hussey is a leading producer of copper products because as a primary mill source, we closely monitor and control our quality from melt to finish and every step in between.



This historic landmark was originally designed and constructed in 1826 by Thomas Jefferson.

Rotunda at the University of Virginia, Charlottesville, Va.
W.A. Lynch Roofing
Photo courtesy of Dan Grogan Photography, Charlottesville, Va.

Hussey Copper

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www.husseycopper.com



American Owned Since 1848

Architectural Copper

Hussey Architectural Copper is the Best Value for Lasting Beauty, Performance and Dependability.

CUSTOM-TAILORED CONSTRUCTION COPPER

SPECIFICATIONS:

ASTM B370: Copper Sheet and Strip for Building Construction

USES:

Hussey construction copper is used in general building applications such as standing seam, batten seam and flat seam roofs: flashings, soffits, fascias, gravel stops, copings, cleats, curtain walls, skylights, solar collector panels, wall panels, windows, awnings, downspout and gutters, radio frequency shielding.

SIZES:

PACKING STANDARDS

Weight per Square Foot	Sizes in Inches	Number of Sheets	Est. Lbs. per Case
12 oz.	36 x 96	120	2,144
.016	36 x 120	96	2,144
16 oz.	24 x 96	134	2,154
	24 x 120	108	2,170
.0216	36 x 96	90	2,170
	36 x 120	72	2,170
20 oz.	24 x 96	108	2,170
	24 x 120	86	2,160
.027	36 x 96	72	2,170
	36 x 120	58	2,184
24 oz.	24 x 96	90	2,164
	24 x 120	72	2,164
.0323	36 x 96	60	2,164
	36 x 120	48	2,164
32 oz.	36 x 96	46	2,212
.0431	36 x 120	36	2,164

Contact your Hussey Copper sales rep for information on smaller cases

STANDARD COLD ROLLED COIL:

6,000 - 10,000 pound/tension leveled, slit edge coil are available in widths of 24, 30, and 36 inches, as well as any custom width 3" through 36".

PAN FORMING COIL:

Coils suitable for roll-forming into roofing pans are "Tailor Made" in weights of 500 pounds or more and in widths specified by the customer.

TENSION LEVELED:

All Hussey sheet and coil are tension leveled to assure uniform flatness.

COLD ROLLED SHEET

WT. PER SQ. FT.	AVERAGE THICKNESS			TYPICAL WT. PER SHEET POUNDS			
	Inches	MM	B & S Gauge Number Approx.	24	24	36	36
*12 oz.	.0162	.411	26	12	15	18	22.5
16 oz.	.0216	.549	23	16	20	24	30
20 oz.	.0270	.686	21	20	25	30	37.5
24 oz.	.0323	.082	20	24	30	36	45
32 oz.	.0431	1.09	17	-	-	48	60

NOTE: Other widths and lengths are available upon request
*12oz. Copper is supplied as cold rolled, 1/2 hard temper (H02).

STANDARD SOFT COIL:

16 oz. soft temper roofing rolls are available in widths of 6 inches through 24 inches:

APPROXIMATE LENGTH PER 100 LB. ROLL

WIDTH	LENGTH	WIDTH	LENGTH
6 in.	200 ft.	14 in.	85 ft.
7 in.	170 ft.	16 in.	75 ft.
8 in.	150 ft.	18 in.	66 ft.
10 in.	110 ft.	20 in.	60 ft.
12 in.	100 ft.	24 in.	50 ft.

MECHANICAL PROPERTIES:

Temper		Tensile* (KSI)	Min Yield	+Approx. Rockwell F
060	Soft	30-38	-	Up to 65
H00	Cold Roll, 1/8 Hard	32-40	20	54-82
H01	Cold Roll, Hi-Yield 1/4 Hard	34-42	28	60-84
H02	Cold Roll, Half Hard	37-46	30	77-89
H03	Cold Roll, 3/4 Hard	42-50	32	82-91

*1 KSI = 1000 psi
+Rockwell F hardness applied to a metal .020" or thicker

In general, cold roll 1/8 hard (H00) is recommended for most roofing and flashing installations. Copper with higher temper is used for specific engineering applications and is occasionally specified when roll-forming is used to make the pans. Soft copper is used when extreme forming is required.

It should be noted that cold rolled copper provides more resistance to stresses induced by expansion and contraction than soft temper does.

Twelve ounce copper is supplied as cold rolled 1/2 hard temper (H02). For some applications, this may allow the use of 12 ounce copper where 16 ounce cold roll 1/8 hard (H00) normally might have been used.

PHYSICAL PROPERTIES OF COLD ROLLED COPPER:

Specific Gravity	8.89 - 8.99
Density	0.323Lb./Cu in @ 68 deg F
Thermal Conductivity	226 BTU/sq. ft @ 68 deg F
Coefficient of Expansion	0.0000098/Deg F from 68 to 572 deg F
Modulus of Elasticity (tension)	17,000,000 psi
Shear Strength	25,000 psi

GALVANIC CORROSION:

When dissimilar metals are in contact through the presence of an electrolyte (such as rainwater running from one surface to another) galvanic action may occur. This will result in the deterioration of the metal with the lower galvanic number.

The principal metals for concern are zinc (galvanized steel) and aluminum. In most cases, it is not necessary to isolate copper from lead, tin, or stainless steel.

Copper has the highest galvanic number of the active metals and will not be harmed by contact with other metals.

Galvanic Scale (Nobility) of Common Metals.

- | | | |
|-------------|-----------------------------|--------------------|
| 1. Aluminum | 4. Iron | 7. Lead |
| 2. Zinc | 5. Stainless Steel (Active) | 8. Copper |
| 3. Steel | 6. Tin | 9. Stainless Steel |

AVAILABILITY:

Standard sizes readily available from stock. Custom sizes also available.


LIMITED WARRANTY:

Complete limited warranty available upon request.


All copper products must be stored in a dry environment to ensure protection from any type of moisture or condensation prior to installation.

WEATHERING OF COPPER


This weathering cycle represents a copper roof at a 45 angle with a southern exposure in a typical northeastern industrial city.




UNEXPOSED



1 YEAR



5 YEARS



15 YEARS

Hussey Architectural Copper
Maintenance Free • Durable • LEEDS Eligible • Aesthetic • Retains Value • Non-Combustible • Economical