

MATERIAL CERTIFICATION

Design Specification (AISI)

"Specifications for the Design of Cold-Formed Steel Structural Members"

Product Specification (ASTM)

Drywall Nonload-Bearing (Nonstructural) Framing and Accessories	C 645
Structural Framing and Accessories	C 955
Plastering Steel Products	C 847
Veneer and Plaster Accessories	C 841/C 1063
Beads and Trims – Metal – Paper – Vinyl	C 1047

Material Specification (ASTM)

Drywall Nonload-Bearing (Nonstructural) Framing – No accessories	A 1003 (NS33)
Structural Framing and Accessories	A 1003 (ST33L, ST33H, ST50L, ST50H)
Plastering Steel Products	A 653
Veneer and Plaster Accessories	A 653/B 69
Beads and Trims – Metal – Paper – Vinyl	A 653/A 591

Coating Specification (ASTM)

Drywall Nonload-Bearing (Nonstructural) Framing and Accessories	C 645
Structural Framing and Accessories	C 955*
Plastering Steel Products	A 653
Veneer and Plaster Accessories	C 1063
Beads and Trims – Metal – Paper – Vinyl	C 1047

Additional Information

MSDS, limiting heights, code-body reports and individual product specification sheets are available at www.dietrichmetalframing.com

* Structural Framing products are available with a variety of protective coatings. G60 zinc coatings meet the most widely applicable building codes and we are able to provide certified G60 product that meets the G60 coating weight provisions of ASTM C 955. Certified G90 coatings are an enhanced option that can be requested for highly corrosive environments. G60E coatings are an economical choice. G60E coatings for structural products will pass the 100-hour salt spray test applicable to "equivalent" coatings under ASTM A 1003, but cannot be certified by any supplier to meet the G60 minimum coating standard under ASTM C 955. The buyer is solely responsible to assure that products purchased properly satisfy any applicable code or specification.

ASTM Specification Descriptions

A 591

Standard Specification for Steel Sheet, Electrolytic Zinc-Coated, for Light Coating Weight [Mass] Applications

A 653

Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by Hot-Dip Process

A 1003

Standard Specification for Steel Sheet, Carbon, Metallic- and Nonmetallic-Coated for Cold Formed Framing Members

B 69

Standard Specification for Rolled Zinc

C 645

Standard Specification for Nonstructural Steel Framing Members

C 841

Standard Specification for Installation of Interior Lathing and Furring

C 847

Standard Specification for Metal Lath

C 955

Standard Specification for Load-Bearing (Transverse and Axial) Steel Studs, Runners (Tracks), and Bracing or Bridging for Screw Application of Gypsum Panel Products and Metal Plaster Bases.

C 1047

Standard Specifications for Accessories for Gypsum Wallboard and Gypsum Veneer Base

C 1063

Standard Specifications for Installation of Lathing and Furring to Receive Interior and Exterior Portland Cement-Based Plaster.

Plant Locations

World Headquarters

500 Grant Street, Suite 2226
 Pittsburgh, PA 15219
 800-873-2604 phone
 412-281-2805 corp.
 412-281-2965 fax



Protective Coating

Dietrich Metal Framing offers a variety of galvanized products that can be selected to meet the specific requirements of a project.

Non- structural products have a corrosion resistant galvanized coating that conforms to ASTM specification A1003 – G40 coating weight or equivalent corrosion protection. This coating is in accordance with the industry standard coating requirements of ASTM C 645. These products can also be ordered with enhanced coatings for special applications.

Structural Framing products are available with a variety of protective coatings. G60 zinc coatings meet the most widely applicable building codes and we are able to provide certified G60 product that meets the G60 coating weight provisions of ASTM C 955. Certified G90 coatings are an enhanced option that can be requested for highly corrosive environments. G60E coatings are an economical choice. G60E coatings for structural products will pass the 100-hour salt spray test applicable to "equivalent" coatings under ASTM A 1003, but cannot be certified by any supplier to meet the G60 minimum coating standard under ASTM C 955. The buyer is solely responsible to assure that products purchased properly satisfy any applicable code or specification.

Yield Strength, F_y /(psi or ksi)

Yield strength is the property by which the strength of steel is typically defined. Dietrich 20 and 18-gauge products are manufactured with steel having a yield point of 33 ksi. 16, 14 and 12 gauge products are manufactured with steel having a yield point of 50 ksi. Ksi is short for kips per square inch. One kip is equal to 1,000 pounds.

Steel Thickness with Color Code

UltraSTEEL® Non-Structural Steel Thickness with Color Code

Gauge	Mils	Thickness				ASTM Color Code***
		Effective Thickness**		Minimum Thickness		
		Inches	mm	Inches	mm	
25EQ	15	0.034	0.86	0.015	0.38	None
20DW EQ	25	0.055	1.34	0.025	0.63	Pink
20STR EQ*	28	0.060	1.52	0.028	0.71	White

Steel Thickness with Color Code

Gauge	Mils	Thickness				ASTM Color Code**
		Design Thickness		Minimum Thickness		
		Inches	mm	Inches	mm	
25	18	0.0188	0.478	0.0179	0.455	None
20 DW	30	0.0312	0.792	0.0296	0.752	Pink
20 STR	33	0.0346	0.879	0.0329	0.836	White
18	43	0.0451	1.146	0.0428	1.087	Yellow
16	54	0.0566	1.438	0.0538	1.367	Green
14	68	0.0713	1.811	0.0677	1.720	Orange
12	97	0.1017	2.583	0.0966	2.454	Red

*Not available in all locations

**The term "Effective Thickness" was created by Underwriters Laboratory (UL) to establish a minimum thickness measurement after the UltraSTEEL® manufacturing process has occurred. Effective thickness is the measurement across the peaks of the dimples or the thickest part of the steel. The manufacturing, base steel and quality control process is verified by independent third party UL representatives, who make regular unannounced visits to Dietrich's manufacturing facilities to assure full compliance with UL established quality control standards.

***Color coded product may or may not be available. Varies by market.

Minimum thickness is 95% of the design thickness per AISI code

Recycled Content

Light-gauge steel framing is recognized as a recycled content product with the LEED Green Building Rating System**. Dietrich Metal Framing™ products contain a high content of recycled steel.

** LEED and LEED Green Building Rating System are service marks of the U.S. Green Building Council.

United States

Arizona	Goodyear.....	623-932-1407
California	Colton	909-824-9717
	Stockton.....	209-547-9066
Colorado	Denver	303-289-4092
Florida	Miami.....	305-652-5423
Georgia	McDonough.....	678-304-5500
Hawaii	Kapolei.....	808-682-5747
Illinois	Joliet.....	815-207-0110
Indiana	Hammond	219-931-3741
Kansas	Lenexa	913-599-2026
Maryland	Baltimore.....	410-477-8700
Massachusetts	Lunenburg.....	978-342-9742
New Jersey	Boonton.....	973-335-3240
Ohio	Warren	330-372-4014
Texas	Baytown.....	281-383-1617
	Hutchins.....	972-225-1100
Washington	Renton	425-251-1497
International	Miami.....	305-652-5423

Canada

Edmonton	780-469-9850
Toronto	905-565-9665
Vancouver	604-434-3737

Technical Services

Dietrich Design Group North	800-873-2443
or	219-853-9474
Dietrich Design Group South.....	800-873-2443
or	678-304-5525
Dietrich Design Group West	800-873-2443
or	760-931-0465

