Product submittal information for:

Exterior Framing: 362S162-43 (33ksi, G90) P 362T125-43 (33ksi, G90)

Clips and Accessories: 087F125-43



SUBMITTAL

For the proposed new construction of:

Date: 7/11/16

Contractor Information:

GC Information:

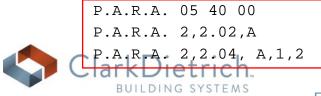
Architect Information:

Distributor Information:



For product technical & engineering support call ClarkDietrich's Tech Support: (888) 437-3244

Developed using CD SubmittalPro System <u>submittalpro.clarkdietrich.com</u>



Product Submittal Sheet

Tech Support: 888-437-3244 Engineering Services: 877-832-3206 Sales: 800-543-7140 clarkdietrich.com

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Wibiii
Lload in froming on
Used in framing ap
 Load-bearing wall
 Curtain walls
 Tall interior walls
 Floor & ceiling jois
 Trusses
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1.5"
Struct

- AISI North American Specification [NASPEC] S100-07 with 2010 supplement
- * Effective properties incorporate the strength increase from the cold work of forming
- · Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance
- Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
- For installation & storage information refer to ASTM C1007
- SDS & Product Certification Information is available at www.clarkdietrich.com

Sustainability Credits:

For more details and LEED letters contact Technical Services at 888-437-3244 or visit www.clarkdietrich.com/LEED

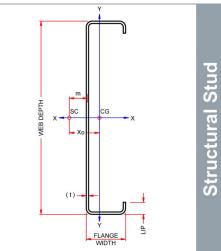
LEED v4 MR Credit -- Building Product Disclosure and Optimization: EPD (up to 2 points) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

LEED 2009 Credit MR 2 & MR 4 -- Clark Dietrich's steel products are 100% recyclable and have a minimum recycled content of 34.2% (19.8% post-consumer and 14.4% pre-consumer). If seeking a higher number to meet Credit MR 5, please contact us at (info@clarkdietrich.com / 888-437-3244)

CD-STRS © 06/30/14 ClarkDietrich Building Systems

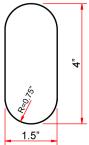
Project Information	Contractor Information	Architect Information
Name:	Name:	Name:
Address:	Contact:	Contact:
	Phone:	Phone:
	Fax:	Fax:

ed Metal Framing)



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- ists



tural Punchout

East market punchout spacing: 12" from lead end then 24" o.c.

West market punchout spacing: 24" from lead end then 24" o.c.



Product Submittal Sheet

Tech Support: 888-437-3244 Engineering Services: 877-832-3206 Sales: 800-543-7140 clarkdietrich.com

Product catego Product name:		•	Leg Structural Track) (33ksi, G90) - Unpur) Coating Color coding	n ched : G90
Geometric Pro	perties	5		
Web depth	3.786	in		
Leg width	1.25 ir	1		
Design thickness	0.0451	in Min.	steel thickness	0.0428 in
Yield strength, Fy	33 ksi	*Fy v	with Cold-Work, Fya	33.0 ksi

Gross Section Properties of Full Section, Strong Axis

0.276 in ²
0.94 lb/ft
0.571 in⁴
0.302 in ³
1.439 in
0.039 in⁴
0.375 in

Effective Section Properties, Strong Axis

45.0 ksi

Effective Area (Ae)	0.174 in ²
Moment of inertia for deflection (Ix)	0.531 in⁴
Section modulus (Sx)	0.245 in ³
Allowable bending moment (Ma)	4.84 in-k
Allowable shear force in web	1739 lb

Torsional Properties

Ultimate, Fu

St. Venant torsion constant (J x 1000)	0.187 in⁴
Warping constant (Cw)	0.098 in ⁶
Distance from shear center to neutral axis (Xo)	-0.654 in
Distance between shear center and web centerline (m)	0.407 in
Radii of gyration (Ro)	1.625 in
Torsional flexural constant (Beta)	0.838

ASTM & Code Standards:

- AISI North American Specification [NASPEC] S100-07 with 2010 supplement
- * Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
 ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
- For installation & storage information refer to ASTM C1007
- SDS & Product Certification Information is available at www.clarkdietrich.com

Sustainability Credits:

For more details and LEED letters contact Technical Services at 888-437-3244 or visit www.clarkdietrich.com/LEED

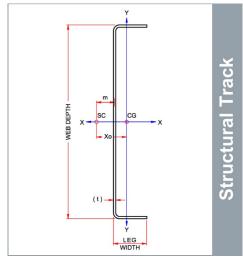
LEED v4 MR Credit -- Building Product Disclosure and Optimization: EPD (up to 2 points) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

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CD-STRT © 06/30/14 ClarkDietrich Building Systems

Project Information	Contractor Information	Architect Information
Name:	Name:	Name:
Address:	Contact:	Contact:
	Phone:	Phone:
	Fax:	Fax:





Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses

UPPER SOFFIT FRAMING.



Product Submittal Sheet

Tech Support: 888-437-3244 Engineering Services: 877-832-3206

Sales: 800-543-7140 clarkdietrich.com

Furring / Hat Channel

Product Category: Product Name: 7/8" Furring / Hat Channel - 18 gauge 087F125-43 (33 ksi, CP60)

43 mils (18 gauge) Coating: CP60 (G90 available)

Geometric Properties

Depth	0.875 in	Design thickness	0.0451 in
Width	1.250 in	Min. steel thickness	0.0428 in
Yield stress, Fy	33 ksi	Ultimate, Fu	45 ksi

Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.168	in²
Member weight per foot of length	0.572	lb/ft
Moment of inertia (Ix)	0.020	in⁴
Radius of gyration (Rx)	0.345	in
Gross moment of inertia (ly)	0.079	in⁴
Gross radius of gyration (Ry)	0.684	in

Effective Section Properties, Strong Axis

Moment of inertia for deflection (Ix)	0.020	in⁴
Section modulus (Sx)	0.043	in³
Allowable bending moment (Ma)	71.00	ft-lb
Allowable shear force (Va)	599	lb

Ordering Information:

Stock Length:10'-0" & 12'-0" long piecesPackaging:(10) pieces per bundle – (440) pieces per palletPackaging weight:60 lbs./bundle

ASTM & Code Standards:

- AISI North American Specification [NASPEC] S-100-2007 with 2010 Supplement
- Structural framing is produced to meet or exceed ASTM C955
- · Galvanized sheet steel meets or exceeds requirements of ASTM A1003
- For installation & storage information refer to ASTM C1007
- MSDS & Product Certification Information available at <u>www.clarkdietrich.com</u>

Furring / Hat Channel Allowable Ceiling Spans (Deflection: L/360):

	Applied Load								
4 psf 6								13 psf	
Spans	Hat S	pacing (in) o.c.	Hat Sp	acing (i	n) o.c.	Hat S	pacing (in) o.c.
	12	16	24	12	16	24	12	16	24
Single	6'-0"	5'-6"	4'-9"	5'-3"	4'-9"	4'-2"	4'-1"	3'-8"	3'-3"
Multiple	7'-5"	6'-9"	5'-11"	6'-6"	5'-11"	5'-2"	5'-0"	4'-7"	4'-0"

Sustainability Credits:

For more details and LEED letters contact Technical Services at 888-437-3244 or visit www.clarkdietrich.com/LEED

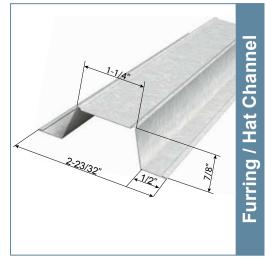
LEED v4 MR Credit -- Building Product Disclosure and Optimization: EPD (up to 2 points) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

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CD-087F125-43 © 12/17/13 ClarkDietrich Building Systems

Project Information	Contractor Information	Architect Information	
Address:	Contact:	Contact:	
	Phone:	Phone:	
	Fax:	Fax:	

05.40.00 (Cold-Formed Metal Framing)



Hemmed legs (as shown) are only available in 25 gauge.

Used in framing applications:

- Furring for walls & ceilings
- Furring out masonry walls
- Framing for drop ceilings assemblies

ClarkDietrich[™] PRODUCT INFORMATION Example: 362S162-43 (33ksi, CP60) punched



S = Structural stud or joist

PDS = ProSTUD[®] drywall stud



T = Structural track

PDT = ProTRAK[®] drywall track



F = Furring channel

Punching Punched at

ClarkDietrich thickness identification and color coding

Punched studs or joists will be supplied unless the customer indicates unpunched material is required at time of order. All track and channels are unpunched.

362	S	162 -	- 43	(33ksi, CP60)	Punched	Protective Coating Structural framing ((G90 available) Drywall framing G4 (G40 or G60 avail
			ľ			KSI -Yield Strength Structural: 33ksi or 50k Drywall: See ProSTUD

U = CRC or U-channel

ClarkDietrich structural member depths, flanges & available thickness | ClarkDietrich return lip dimensions

Member depths	Flange widths range	Mils range	Gauge range	Flange width	Return lip	Member depths	Member mils	Thickness gauge	Design thickne			Color code
(250) 2-1/2" (350) 3-1/2" (362) 3-5/8" (400) 4"	1-3/8," 1-5/8," 2" & 2-1/2" 1-3/8," 1-5/8," 2" & 2-1/2" 1-3/8," 1-5/8," 2" & 2-1/2" 1-3/8," 1-5/8," 2" & 2-1/2"	33–68 33–68 33–97 33–97	20–14 ga 20–14 ga 20–12 ga 20–12 ga	137 (1-3/8") 162 (1-5/8") 200 (2") 250 (2-1/2")	3/8" 1/2" 5/8" 5/8"	3-5/8"–8" 2-1/2"–14" 3-5/8"–14" 3-5/8"–14"	33 43 54 68	20 18 16 14	0.0346' 0.0451' 0.0566' 0.0713'	" 0.0 " 0.0	428")538"	White Yellow Green Orange
(550) 5-1/2" (600) 6" (800) 8"	1-5/8", 2" & 2-1/2" 1-3/8", 1-5/8", 2", 2-1/2" & 3" 1-3/8", 1-5/8", 2", 2-1/2" & 3"	33–97 33–97 33–97	20–12 ga 20–12 ga 20–12 ga	300 (3") Old stud/track	5/8"	6"-14" ns		12 rich ProSTL aming syste			966"	Red
(925) 9-1/4" (1000) 10" (1200) 12"	1-5/8," 2" & 2-1/2" 1-5/8," 2," 2-1/2" & 3" 1-5/8," 2," 2-1/2" & 3"	43–97 43–97 54–97	18–12 ga 18–12 ga 16–12 ga	Designation	Туре	Flange/leg	Member gauge	Mils	1	Design thickness	Min. thicknes	Colo s code
(1400) 14"	1-5/8," 2," 2-1/2" & 3"	54–97	16–12 ga	CWN CSJ CSW CSE CSS TSB TSC TSE	Stud Stud Track	1-3/8" 1-5/8" 2" 2-1/2" 3" 1-1/4" 2" 3"	ProSTUD ProSTUD ProSTUD ProSTUD ProSTUD ProTRAK (25	20 19 20XD 22 30MIL 30	50 65 57 33 33 50ksi Pr	0.0158 0.0200 0.0232 0.0312 0.0346 roTRAK 30 8	0.0150 0.0190 0.0220 0.0296 0.0329 & 33mil = 33	None Pink Pink Pink White ^{3ksi}

HOW TO IDENTIFY OUR PRODUCTS

ClarkDietrich has adopted standard nomenclature established by the American Iron and Steel Institute (AISI) for identifying each of its products. Coding of each member consists of four parts, in this order:

- A number which identifies the web depth of the member to two decimal places. 600 = 6.00," 1000 = 10.00," 550 = 5.50," 362 = 3.625," etc.
- A letter that tells you the type of member, such as S = Stud/joist, T = Track, U = U-channel, and F = Furring channel.
- A number that defines the flange dimension in inches to two decimal places. 162 = 1.625," 200 = 2.00," 125 = 1.25," etc.
- A number following a hyphen that denotes the minimum delivered thickness in mils (33mils = 33/1000 inches which is approximately 0.0329"). Minimum delivered thickness is 95% of design thickness.

Product availability.

Most products manufactured by ClarkDietrich are readily available in all markets, but there can be exceptions. Please contact your ClarkDietrich Sales Representative to make sure the product you need is available in your market area.

Protective coatings.

Non-structural products are coated to meet the requirements of AISI S220 and ASTM C645, with a G40 or a protective coating with an equivalent corrosion resistance. ProSTUD[®] Drywall Framing System meets the Code Compliance Research Report ATI CCRR-0207. Non-structural products may also be ordered with enhanced coatings for special applications.

Structural framing products are available with a variety of protective coatings that meet the CP60 coating protection level requirements of AISI S200 and ASTM C955. These coatings may include G60, A60, AZ50 or GF30, all of which satisfy the above referenced standards. G90 coatings are an enhanced option that can be requested for highly corrosive environments. ClarkDietrich can supply a specific or enhanced coating to meet specific project requirements when requested.

ClarkDietrich is a proud member of the Steel Framing Industry Association (SFIA).

ClarkDietrich[™] CODE APPROVALS AND PERFORMANCE STANDARDS

Material Certification - ClarkDietrich products meet or exceed these applicable performance standards.

Structural framing standards

AISI S100-07 "North American Specification for the Design of Cold-Formed Steel Structural Members, 2001 with 2010 supplement"

ASTM C955	Load-bearing steel framing
ASTM C1007	Installation
ASTM A1003	Material specification for steel sheet mechanical
	and chemical requirements

Protective coating standards

ASTM A653	Zinc-coated hot-dip process
ASTM A792	55% aluminum-zinc alloy-coated hot-dip process
ASTM A875	Zinc-5% aluminum alloy-coated hot-dip process
ASTM A924	Metallic-coated hot-dip process

Additional code approvals

SFIA (Steel Framing Industry Association) ICC-ES ESR 1166P

ProSTUD® drywall framing standards

AISI S100-07 North American Specification for the Design of Cold-Formed Steel Structural Members

AISI S220-11 North American Standard for Cold-Formed Steel Framing – Nonstructural Members

ASTM American Society for Testing and Materials

- A1003 Material specification for steel sheet mechanical and chemical requirements C645 Standard specification for nonstructural steel framing
- C754 Standard specification for installation of steel framing
- C1002 Standard specification for steel self piercing tapping screw
- E119 Standard test methods for fire tests
- E72 Standard test methods of conducting strength tests
- E90 Standard test method for sound transmission loss

UL® Underwriters Laboratories testing standard

UL 263 Fire Tests of Building Construction and Materials"

Multiple UL® design listings for ProSTUD

Over 50 UL Designs; UL file number R26512

Additional code approvals

SFIA (Steel Framing Industry Association) ATI CCRR-0207

UL® and UL® Design are trademarks of Underwriters Laboratories, Inc.

Metal lath & accessories

ASTM C847	Metal lath products
ASTM C841	Installation of interior lathing & furring
ASTM C1063	Installation of lathing & furring
ASTM A653	Zinc-coated hot-dip process
ASTM C1047	Accessories standards—control joints
ASTM A924	Metallic-coated hot-dip process
UUB790A	APB type 1, grade D, style 2
CE 240.01	Furring (metal) lathing and plastering
EMLA 920	Guide specs for metal lathing & furring
A statistic and a statistic	

Additional code approvals

ATI CCRR-0204

ClarkDietrich Building Systems has prepared this literature with the utmost diligence and care for accuracy and conformance to standards.

ClarkDietrich Building Systems reserves the right to modify or change any information contained in this literature without notification.

ClarkDietrich Building Systems intends this information to be accurate, informative, and helpful as a selection guide for choosing ClarkDietrich Building System products. However, this information is only to be used for guidance and is not intended to replace the design, drawings, specifications, and decisions of a professional architect or engineer.

ClarkDietrich Building Systems or its affiliates shall not be responsible for incidental or consequential damages, directly or indirectly sustained, nor for loss caused by application of our products for other than their intended uses. Our liability is limited to replacement of defective products. Claims shall be deemed waived unless they are made to us in writing within thirty (30) days of the date a problem was or reasonably should have been discovered.

ClarkDietrich structural and nonstructural framing comply with the SFIA Code Compliance Program. ClarkDietrich is a member of SFIA.

Check the updated list of Certified Production Facilities at Architectural Testing's website at www.archtest.com.







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LOCATIONS

ClarkDietrich Building Systems Manufacturing and Sales Locations:

CALIFORNIA Riverside P 951.360.3500	CALIFORNIA Sacramento P 951.360.3500	CONNECTICUT Bristol P 866.921.0023	FLORIDA Dade City P 352.518.4400	Toll-F Techr Toll F
GEORGIA McDonough	HAWAII Kapolei	ILLINOIS Rochelle	MARYLAND Baltimore	Email
P 678.304.5500	P 951.360.3500	P 800.659.0745	P 410.477.4000	CENT
OHIO Warren-East	OHIO Warren-West	TEXAS Baytown	TEXAS Dallas	NORTI
P 330.372.5564	P 330.372.4014	P 281.383.1617	P 214.350.1716	SOUTH
CLIP EXPRESS [™] -EAST	CLIP EXPRESS [™] -WEST	VINYL CORP		WEST
P 866.638.1908	P 530.406.3462	P 800.648.4695		

ClarkDietrich Engineering Services. A full spectrum of solutions.

Toll-Free Phone: 877.832.3206 Technical Services: 888.437.3244 Toll Free Fax: 877.832.3208 Email: engineering@clarkdietrich.com

CENTRAL Crown Point, IN NORTHEAST Bristol, CT SOUTHEAST Roswell, GA SOUTHEAST McDonough, GA WEST Carlsbad, CA

The technical content of this page is effective 08/18/14 and supersedes all previous information

Safety Data Sheet (SDS)



		Section 1 – Id	entification			
1(a) Product Iden	tifier used on Label: Coated Ste	el Sheet.				
1(b) Use/Descript	ion: Coated Steel Sheet for thin g	auge framing products.				
1(d) Products: Coand plaster accesso		onents and accessories for	drywall, curtain wall and load bea	ring systems. Also includes metal lath		
1(d) Synonyms: H	Hot Band, Cold Rolled, P&O, Gal	lvanized.				
1(e) Company Ide	entification and Emergency Cor	itact Information: Clark	Dietrich Building Systems			
Corporate Office: 9100 Centre Poir West Chester, Ol	nt Drive, Suite 210 Phone: 5	13-870-1100 I	Fax: 513-870-1300	http://www.clarkdietrich.com/		
Manufacturing L Baltimore, MD Dallas, TX Rochelle, IL	ocations: Baytown, T. Kapolei, HI Sacramento	McDonough, GA		Dade City, FL Riverside, CA		
	Sec	tion 2 – Hazard	(s) Identification			
OF CLASSIFICA and Geneva, 2009 2(b) Signal word		CHEMICALS (GHS), The etion 3, 8 and 11 for addition and precautionary staten	ird revised edition ST/SG/AC.10/3 onal information.	DBALLY HARMONIZED SYSTEM 30/Rev.3" United Nations, New York		
Hazard Symbol	Hazard Classification	Signal Word				
^	Carcinogenicity - 2			of causing cancer.		
	Reproductive Toxicity - 2		Suspected of damaging fertility or the unborn child.			
Single Target Organ Toxicity (STOT) Repeat Exposure -1		Description	Causes damage to lungs and central nervous system through prolonged or repeated inhalation exposure. Harmful if swallowed.			
~	Acute Toxicity-Oral - 4	Danger	Harmful if swallowed. May cause an allergic skin reaction.			
	Skin Sensitization - 1			Harmful in contact with skin.		
\sim	STOT Single Exposure - 3		May cause respiratory irritation.			
NA	Eye Irritation-2B		_	Causes eye irritation.		
	Statement(s):					
	Prevention	ŀ	Response	Storage/Disposal		
Do not breathe du spray. Wear pr clothing / eye p Contaminated wor out o Use only outdoo Wash tho Obtain speci Do not handle ur been re	ists / fume / gas / mist / vapor / rotective gloves / protective protection / face protection. k clothing must not be allowed of the workplace. ors or in well ventilated areas. roughly after handling. al instructions before use. htil all safety precautions have ead and understood. hk or smoke when using this	If inhaled: Remove person to fresh air and keep comfortable for breathing. If exposed, concerned or feel unwell: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing. If on skin: Wash with plenty of water. If irritation or rash occurs: Get medical advice/attention. Take off and wash contaminated clothing before reuse. Call a poison center/doctor if you feel unwell.		Dispose of contents in accordance with federal, state and local regulations.		
	product. otherwise classified: None Kno sute toxicity statement (mixture	own		1		

Revision Date: 05/01/2015

P a g e 1 | 9

This is only 1 of the 9 pages. You can view the full report or our EPDs and HPDs at the following location: www.clarkdietrich.com/support-tools/support-docs