



PRODUCT CATALOG

BY **PANEL REY**
Drywall Solutions



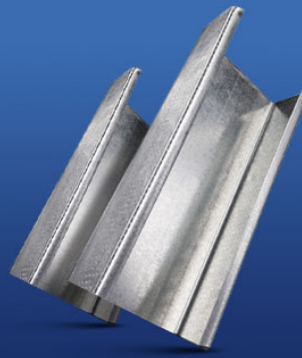
SUPRA FRAMING

PRODUCT CATALOG

By Panel Rey



SUPRA FRAMING



ASTM Standards and Compliance Codes

All Panel Rey® Stud, Track & Accessories meet or exceed the following ASTM and construction standards:

- ASTM A653 Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
- ASTM C645 Standard Specification for Nonstructural Steel Framing Members.
- ASTM C754 Standard Specification for Installation of Steel Framing Members to receive Screw-Attached Gypsum Panel Products.
- ASTM A924/A924M Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.
- ASTM A1003 Standard Specification for Steel Sheet, Carbon, Metallic- and Nonmetallic-Coated for Cold-Formed Framing Members.
- AISI S100-16 y AISI S240-15
- 2018 IBC

CERTIFICATE OF COMPLIANCE

Certificate Number R41041
Report Reference R41041-2023-05-31
Issue Date 2023-09-28

This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Type SUPRA Stud 20/33 mil and SUPRA Track 20/33 mil framing members for use in Design
Nos. U425, U465, V349, V350, V351, W496.

Type SUPRA Stud 20EQ/19 mil and SUPRA Track 20EQ/19 mil framing members for use in Design
Nos. U403, U411, U412, U420, U431, U435, U436, U444, U450, U451, U454, U463, U465, U466, U471, U475, U478, U490, U491, U493, U494, U495, U496, U4101, U4102, U4103, U4104, U4105, U4106, U4107, U4108, U4109, U4110, U4111, V410, V412, V416, V417, V418, V419, V425, V437, V443, V476, V488, V498, W461.

LEED Credits

- Leed v4 MR. Raw Material Supply
- Leed v4 MR. Total recycled content: 41%
- Leed v3 MR2. Post-consumer recycled content: 19%
- Leed v3 MR4. Pre-Consumer recycled content: 22%

Notes.

The information, pictures and all material presented in this catalog is with the intention to reference as a guideline. It is used to provide examples for the application of the products and are not specified for any particular or standard project.

SUPRA Framing reserves, the right to change or modify the information contained in this catalog without prior notice or obligation. The information in this catalog supersedes all previously published data. Products and systems may be improved and/or changed after this catalog is printed.

Warranty.

SUPRA Framing warrants that all products are free from defect at time of shipment, and are manufactured in accordance with company and/or industry standards as applicable.

SUPRA Framing shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods, not in accordance with current printed instructions or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.



2024

**STEEL FRAMING INDUSTRY ASSOCIATION
CODE COMPLIANCE CERTIFICATION PROGRAM
NOTICE OF COMPLIANCE CERTIFICATION**

**Structural, Nonstructural and Equivalent Nonstructural
(Supra 3 5/8" Stud & Track -
20EQ/19-mil and 25EQ/16-mil;
Supra 2.5" & 6" Stud & Track - 25EQ/16-mil)
Cold-Formed Framing Products**

ISSUED TO: Panel Rey S.A.
MANUFACTURING Carr. Monterrey-Monclova Km 11.5
LOCATION: El Carmen, Nuevo León, 66560
Mexico

Current certification should be verified by visiting the web listing of certified facilities at <http://www.intertek.com/building/sfia>

As a certified Manufacturer you are entitled to apply the following certification labels.



DATE: December 20, 2023
AUTHORIZED BY: Intertek Program Administrator

This facility is hereby authorized to certify standard Structural, Nonstructural and Equivalent Nonstructural (Supra 3 5/8" Stud & Track - 20 EQ/19-mil and 25EQ/16-mil; Supra 2.5" & 6" Stud & Track - 25EQ/16-mil) cold-formed steel framing produced at the above listed location in accordance with the SFIA Code Compliance Certification Program. Application of labels shall be permitted if the manufacturing location listed above satisfies the certification program requirements and retains its compliance certification.

SUPRA Framing uses the standard identification.

SUPRA Framing use the standard identification marked by the American Iron and Steel Institute (AISI).
The code consists with those main parts:

Web Depth. - Members which are identified by the number with two decimals and show the depth presented by the product.

Example. - 362 = 3.625", 600 = 6.00" etc.

Identification Letter. - The letter that describes and represents the product.

A = Angle
S = Stud
T = Track
F = Furring Channel

Flange- the number that represents the side or leg dimensions for the member.
That dimension is mentioned in inches.
Example. - 162 = 1.625, 125 = 1.250 etc.

Gauge Mils- Is the minimum thickness for the product, marked and regulated by the standards (which satisfy the above referenced - AISI) and mentioned in mils.

According with the AISI S200 and ASTM C955, the Structural Framing Components demand the minimum level protection as a CP60, also may include G60, A60, AZ50 or GF30, same coatings satisfy the previous reference mentioned.

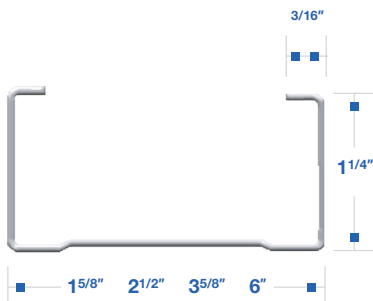


PANEL REY, Represented by [SUPRA Framing](#)
is a proud member of the Steel Framing Industry Association (SFIA).

SUPRA STUD



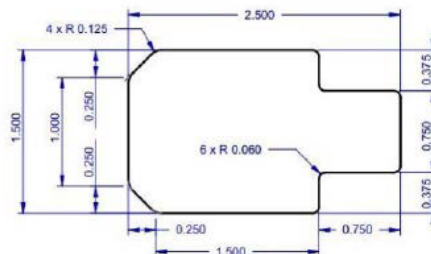
DIMENSIONS



PUNCHOUT

STYLE	SPACING FROM END	OC
East	12"	24"
West	24"	24"

*Punchout dimensions as reference



EQ Products

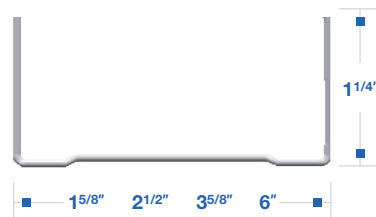
Below are the principal elements to form a light-weight structure. These are normally used in a vertical positions. Each Metal Stud with knurled flanges are pre-punched at regular intervals specifically designed to facilitate electrical and hydraulic installation (wiring, plumbing, etc.) Customizable sizes and cuts of lengths are available upon request.

PRODUCT NAME	GAUGE	MILS	DESIGN THICKNESS (IN)	KSI	WEB WIDTH (IN)	COLOR CODE
SUPRA Stud 25 EQ	25	15	0.0158	60	1-5/8, 2-1/2, 3-5/8, 6	None
SUPRA Stud 20 EQ	20	19	0.019	60	1-5/8, 2-1/2, 3-5/8, 6	Brown

SUPRA TRACK



DIMENSIONS



EQ Products

Supra Track 25 and 20=60 Ksi

These are between tracks and used normally in horizontal positions to secure and align metal studs to the floor and ceiling. These two combined are used in order to form the light structure of a division wall.

Coating NonStructural Framing **G40**

- . Standard pack - 360 pieces. Custom packaging, Please check with your Sales Representative.
- . 10' standard length for Studs & Tracks. Custom orders are available. Please check with your Sales Representative.

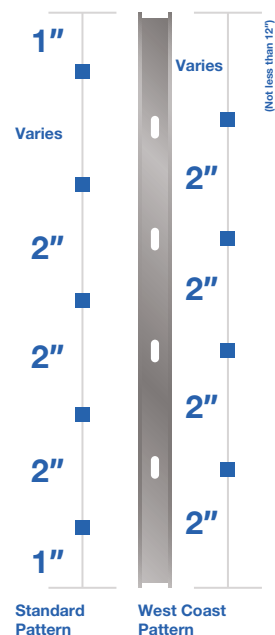
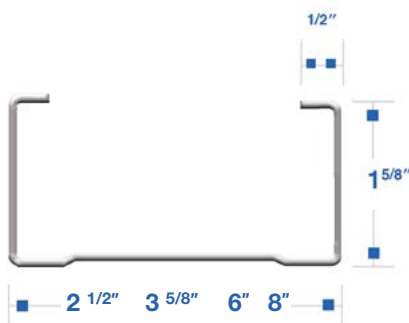
STRUCTURAL STUD

According by the SFIA

This structural stud is designed to support the weight of the Drywall Gypsum, Glass Rey and other exterior boards, also, it's the one that receives the structural charges of a construction.



DIMENSIONS



Punching Space between the punching can be customized by the customer. It does require indication at the time of the order.

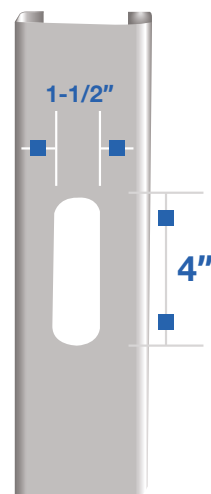
Coating Structural Framing [G60](#)

MEMBER DEPTHS	FLANGE WIDTHS	THICKNESS MILS RANGE	GAUGE RANGE
(250) 2-1/2"	1-5/8"	33 - 68	20 - 14
(362) 3-5/8"	1-5/8"	33 - 68	20 - 14
(600) 6.00"	1-5/8"	33 - 68	20 - 14
(800) 8.00"	1-5/8"	33 - 68	20 - 14

FLANGE WIDTH	RETURN LIP	MEMBER DEPTHS
162 (1-5/8")	1/2"	2-1/2" - 8.00"

OLD DESIGNATION	TYPE	FLANGE/LEG
CSJ	Stud	1-5/8"

THICKNESS (MILS)	THICKNESS (GAUGE)	STEEL GRADE (KSI)	NOMINAL THICKNESS (IN)	MINIMUM THICKNESS (IN)	COLOR CODE
33	20	33	0.0346	0.0329	White
43	18	33	0.0451	0.0428	Yellow
54	16	33 & 50	0.0566	0.0538	Green
68	14	33	0.0713	0.0677	Orange



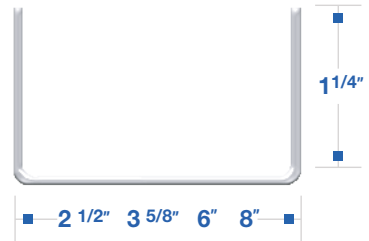
STRUCTURAL TRACK

According by the SFIA

This drywall framing is normally used on horizontal positions, installing them to the floor and the ceiling. It is combined with the Studs to create structures.



DIMENSIONS



Punching All Tracks and Channels are unpunched.

Coating Structural Framing **G60**

MEMBER DEPTHS	FLANGE WIDTHS	THICKNESS MILS RANGE	GAUGE RANGE
(250) 2-1/2"	1-1/4"	33 - 54	20 - 16
(362) 3-5/8"	1-1/4"	33 - 54	20 - 16
(600) 6.00"	1-1/4"	33 - 54	20 - 16
(800) 8.00"	1-1/4"	33 - 54	20 - 16

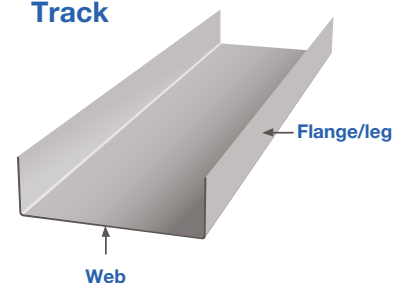
FLANGE WIDTH
125 (1-1/4")

MEMBER DEPTHS
2-1/2" - 8.00"

OLD DESIGNATION	TYPE	FLANGE/LEG
TSB	Track	1-1/4"

THICKNESS (MILS)	THICKNESS (GAUGE)	STEEL GRADE (KSI)	NOMINAL THICKNESS (IN)	MINIMUM THICKNESS (IN)	COLOR CODE
33	20	33	0.0346	0.0329	White
43	18	33	0.0451	0.0428	Yellow
54	16	33 & 50	0.0566	0.0538	Green

Track



PHYSICAL & STRUCTURAL PROPERTIES

2 1/2" STRUCTURAL (S) STUD SECTION PROPERTIES

				GROSS PROPERTIES						EFFECTIVE PROPERTIES						TORSIONAL PROPERTIES					
	DESIGN THICKNESS	F _y	AREA	WEIGHT	I _x	S _x	R _x	I _y	R _y	I _x	S _x	M _A	M _{AD}	V _{AG}	V _{ANET}	JX1000	C _w	X ₀	M	R ₀	β
Member	(in)	(ksi)	(in ²)	(lb/ft)	(in ⁴)	(in ³)	(in)	(in ⁴)	(in)	(in ⁴)	(in ³)	(in-k)	(in-k)	(lb)	(lb)	(in ⁴)	(in ⁴)	(in)	(in)	(in)	(in)
250S162-33	0.0346	33	0.223	0.76	0.235	0.188	1.027	0.087	0.624	0.235	0.180	3.55	3.41	975	399	0.089	0.146	-1.470	0.859	1.898	0.401
250S162-43	0.0451	33	0.289	0.98	0.302	0.242	1.022	0.111	0.620	0.302	0.240	5.22	4.72	1265	394	0.196	0.184	-1.457	0.852	1.885	0.402
250S162-54	0.0566	33	0.358	1.22	0.370	0.296	1.016	0.135	0.613	0.370	0.296	6.57	6.53	1553	373	0.383	0.223	-1.443	0.845	1.868	0.404
250S162-54	0.0566	50	0.358	1.22	0.370	0.296	1.016	0.135	0.613	0.370	0.284	9.42	8.32	2353	565	0.383	0.223	-1.443	0.845	1.868	0.404
250S162-68	0.0713	50	0.443	1.51	0.450	0.360	1.008	0.162	0.605	0.450	0.357	12.11	11.97	2866	519	0.752	0.268	-1.424	0.835	1.847	0.405

2 1/2" (T) TRACK SECTION PROPERTIES

				GROSS PROPERTIES						EFFECTIVE PROPERTIES				TORSIONAL PROPERTIES					
	DESIGN THICKNESS	F _y	AREA	WEIGHT	I _x	S _x	R _x	I _y	R _y	I _x	S _x	M _A	V _{AG}	JX1000	C _w	X ₀	M	R ₀	β
Member	(in)	(ksi)	(in ²)	(lb/ft)	(in ⁴)	(in ³)	(in)	(in ⁴)	(in)	(in ⁴)	(in ³)	(in-k)	(lb)	(in ⁴)	(in ⁴)	(in)	(in)	(in)	β
250T125-33	0.0346	33	0.173	0.59	0.192	0.145	1.054	0.027	0.397	0.166	0.103	2.03	1024	0.0690	0.033	-0.760	0.456	1.358	0.687
250T125-43	0.0451	33	0.225	0.77	0.250	0.188	1.055	0.035	0.395	0.231	0.147	2.91	1356	0.1526	0.042	-0.755	0.453	1.356	0.690
250T125-54	0.0566	33	0.282	0.96	0.318	0.236	1.062	0.043	0.392	0.310	0.203	4.01	1692	0.3015	0.054	-0.749	0.449	1.357	0.696
250T125-54	0.0566	50	0.282	0.96	0.318	0.236	1.062	0.043	0.392	0.297	0.188	5.64	2563	0.3015	0.054	-0.749	0.449	1.357	0.696

Gross Properties:

I_x: Moment of inertia of gross section about the X-X axis (strong axis).
 S_x: Section modulus about the X-X axis (strong axis).
 R_x: Radius of gyration of the gross section about the X-X axis.
 I_y: Moment of inertia of gross section about the Y-Y axis (weak axis).
 R_y: Radius of gyration of the gross section about the Y-Y axis.



Torsional and Other Properties

J: St. Venant Torsional Constant.
 C_w: Torsional warping constant.
 m: Distance from shear center to mid-plane of web.
 X₀: Distance from the shear center to the centroid along the principal X-axis.
 R₀: Polar radius of gyration about the centroidal principal axis.
 b: 1-(X₀/R₀)²
 Lu: The longest weak axis (L_y) and torsional (L_t) unbraced length at which lateral torsional buckling is restrained in accordance with Section F2.1 of AISI S100-16.

Effective Properties:

I_{xe}: Effective moment of inertia about the X-axis.
 S_{xe}: Effective section modulus about the X-X axis (strong axis) stress = F_y.
 M_A: Allowable Bending Moment - Based on the effective section modulus and the allowable stress including the strength increase from the cold-work of forming (Section A3.3.2) where applicable.
 M_{AD}: Allowable Bending Moment - Based on Distortional Buckling Strength calculated per Sections F4, F4.1 of AISI S100-16.
 V_{AG}: Allowable strong axis shear away from punchout, calculated in accordance with Section G2 of AISI S100-16.
 V_{ANET}: Allowable strong axis shear at punchout, calculated in accordance with Section G3 of AISI S100-16.

Section Properties Table Notes

- Calculated properties are based on AISI S100-126 "North American Specification for the Design of Cold-Formed Steel Structural Members."
- The centerline bend radius is based upon inside corner radii shown in Table as shown in the Thickness Table (page 3. SFIA Technical Guide for Cold-Formed Steel Framing Products).
- Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A3.3.2.
- Tabulated gross properties, including torsional properties, are based upon full-unreduced cross section of the studs, away from punchouts.
- For deflection calculations, use the effective moment of inertia.
- Allowable moment includes cold-work of forming.
- For the steel that has both 33 and 50 ksi listing, if the design is based upon 50 ksi, the 50 ksi needs to be specified. (Example: 3625 S137 16-50 (50ksi).
- Web depth for track sections is equal to the nominal stud width plus 2 times the design thickness plus the bend radius. Hems on nonstructural track sections are ignored.

PHYSICAL & STRUCTURAL PROPERTIES

3-5/8" STRUCTURAL (S) STUD SECTION PROPERTIES

					GROSS PROPERTIES					EFFECTIVE PROPERTIES						TORSIONAL PROPERTIES							
	DESIGN THICKNESS	F _y	AREA	WEIGHT	I _x	S _x	R _x	I _y	R _y	I _x	S _x	M _A	M _{AD}	V _{AG}	V _{ANET}	JX1000	C _w	X ₀	M	R ₀		L _U	
3-5/8"STUD	Member	(in)	(ksi)	(in²)	(lb/ft)	(in⁴)	(in³)	(in)	(in⁴)	(in)	(in⁴)	(in³)	(in-k)	(in-k)	(lb)	(lb)	(in⁴)	(in⁶)	(in)	(in)	(in)	β	(in)
	362S162-33	0.0346	33	0.262	0.89	0.551	0.304	1.450	0.099	0.616	0.551	0.268	5.29	5.20	1024	521	0.105	0.297	-1.308	0.789	2.048	0.592	42.6
	362S162-43	0.0451	33	0.340	1.16	0.710	0.392	1.445	0.127	0.611	0.710	0.372	7.34	7.29	1739	676	0.230	0.376	-1.297	0.782	2.036	0.594	42.5
	362S162-54	0.0566	33	0.422	1.44	0.873	0.482	1.438	0.154	0.605	0.873	0.467	9.22	9.27	2341	705	0.451	0.457	-1.283	0.774	2.020	0.597	42.5
	362S162-54	0.0566	50	0.422	1.44	0.873	0.482	1.438	0.154	0.605	0.873	0.444	13.28	12.87	3372	1016	0.451	0.457	-1.283	0.774	2.020	0.597	34.4
	362S162-68	0.0713	50	0.524	1.78	1.069	0.590	1.429	0.186	0.596	1.069	0.574	17.19	16.91	4370	1004	0.887	0.552	-1.264	0.765	1.999	0.600	34.4

3-5/8" (T) TRACK SECTION PROPERTIES

				GROSS PROPERTIES						EFFECTIVE PROPERTIES				TORSIONAL PROPERTIES					
	DESIGN THICKNESS	F _y	AREA	WEIGHT	I _x	S _x	R _x	I _y	R _y	I _x	S _x	M _A	V _{AD}	JX1000	C _w	X ₀	M	R ₀	β
Member	(in)	(ksi)	(in ²)	(lb/ft)	(in ⁴)	(in ³)	(in)	(in ⁴)	(in)	(in ⁴)	(in ³)	(in-k)	(lb)	(in ⁴)	(in ⁶)	(in)	(in)	(in)	β
362T125-33	0.0346	33	0.212	0.72	0.438	0.232	1.439	0.030	0.377	0.385	0.174	3.44	1024	0.0845	0.076	-0.658	0.410	1.626	0.836
362T125-43	0.0451	33	0.276	0.94	0.571	0.302	1.439	0.039	0.375	0.531	0.245	4.84	1356	0.1870	0.098	-0.654	0.407	1.625	0.838
362T125-54	0.0566	50	0.346	1.18	0.723	0.378	1.445	0.048	0.373	0.678	0.312	9.34	1692	0.3695	0.123	-0.648	0.404	1.627	0.841

Gross Properties:

- I_x: Moment of inertia of gross section about the X-X axis (strong axis).
- S_x: Section modulus about the X-X axis (strong axis).
- R_x: Radius of gyration of the gross section about the X-X axis.
- I_y: Moment of inertia of gross section about the Y-Y axis (weak axis).
- R_y: Radius of gyration of the gross section about the Y-Y axis.



Torsional and Other Properties

- J: St. Venant Torsional Constant.
- C_w: Torsional warping constant.
- m: Distance from shear center to mid-plane of web.
- X₀: Distance from the shear center to the centroid along the principal X-axis.
- R₀: Polar radius of gyration about the centroidal principal axis.
- b: 1-(X₀/R₀)²
- Lu: The longest weak axis (L_y) and torsional (L_t) unbraced length at which lateral torsional buckling is restrained in accordance with Section F2.1 of AISI S100-16.

Effective Properties:

- I_{xe}: Effective moment of inertia about the X-axis.
- S_{xe}: Effective section modulus about the X-X axis (strong axis) stress = F_y.
- M_A: Allowable Bending Moment - Based on the effective section modulus and the allowable stress including the strength increase from the cold-work of forming (Section A3.3.2) where applicable.
- M_{AD}: Allowable Bending Moment - Based on Distortional Buckling Strength calculated per Sections F4, F4.1 of AISI S100-16.
- V_{AG}: Allowable strong axis shear away from punchout, calculated in accordance with Section G2 of AISI S100-16.
- V_{ANET}: Allowable strong axis shear at punchout, calculated in accordance with Section G3 of AISI S100-16.

Section Properties Table Notes

9. Calculated properties are based on AISI S100-126 "North American Specification for the Design of Cold-Formed Steel Structural Members."
 10. The centerline bend radius is based upon inside corner radii shown in Table as shown in the Thickness Table (page 3, SFIA Technical Guide for Cold-Formed Steel Framing Products).
 11. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A3.3.2.
 12. Tabulated gross properties, including torsional properties, are based upon full-unreduced cross section of the studs, away from punchouts.
 13. For deflection calculations, use the effective moment of inertia.
 14. Allowable moment includes cold-work of forming.
 15. For the steel that has both 33 and 50 ksi listing, if the design is based upon 50 ksi, the 50 ksi needs to be specified. (Example: 362S S137 16-50 (50ksi).
 16. Web depth for track sections is equal to the nominal stud width plus 2 times the design thickness plus the bend radius.
- Hems on nonstructural track sections are ignored.

PHYSICAL & STRUCTURAL PROPERTIES

6" STRUCTURAL (S) STUD SECTION PROPERTIES

			GROSS PROPERTIES							EFFECTIVE PROPERTIES						TORSIONAL PROPERTIES						
	DESIGN THICKNESS	F _y	AREA	WEIGHT	I _x	S _x	R _x	I _y	R _y	I _x	S _x	M _A	M _{AD}	V _{AG}	V _{ANET}	JX1000	C _w	X ₀	M	R ₀	β	L _u
Member	(in)	(ksi)	(in ²)	(lb/ft)	(in ⁴)	(in ³)	(in)	(in ⁴)	(in)	(in ⁴)	(in ³)	(in-k)	(in-k)	(lb)	(lb)	(in ⁴)	(in ⁶)	(in)	(in)	(in)	β	(in)
600S162-33	0.0346	33	0.344	1.17	1.793	0.598	2.282	0.116	0.581	1.793	0.577	11.41	9.11	638	638	0.137	0.861	-1.072	0.677	2.588	0.828	41.1
600S162-43	0.0451	33	0.447	1.52	2.316	0.772	2.277	0.148	0.576	2.316	0.767	16.68	12.99	1416	1240	0.303	1.095	-1.062	0.670	2.577	0.830	40.9
600S162-54	0.0566	33	0.556	1.89	2.861	0.954	2.268	0.180	0.570	2.860	0.953	21.17	17.41	2739	1890	0.594	1.337	-1.049	0.663	2.563	0.833	40.7
600S162-54	0.0566	50	0.556	1.89	2.861	0.954	2.268	0.180	0.570	2.860	0.916	30.33	23.02	2823	1947	0.594	1.337	-1.049	0.663	2.563	0.833	33.0
600S162-68	0.0713	50	0.693	2.36	3.526	1.175	2.256	0.218	0.561	3.525	1.164	39.47	31.05	5350	2879	1.174	1.626	-1.032	0.655	2.543	0.835	32.8

6" (T) TRACK SECTION PROPERTIES

			GROSS PROPERTIES							EFFECTIVE PROPERTIES				TORSIONAL PROPERTIES						
	DESIGN THICKNESS	F _y	AREA	WEIGHT	I _x	S _x	R _x	I _y	R _y	I _x	S _x	M _A	V _{AG}	JX1000	C _w	X ₀	M	R ₀		
6" TRACK	Member	(in)	(ksi)	(in²)	(lb/ft)	(in⁴)	(in³)	(in)	(in⁴)	(in)	(in⁴)	(in³)	(in-k)	(lb)	(in⁴)	(in⁹)	(in)	(in)	(in)	β
	600T125-33	0.0346	33	0.294	1.00	1.429	0.465	2.205	0.034	0.339	1.258	0.297	5.87	622	0.1173	0.238	-0.516	0.337	2.289	0.949
	600T125-43	0.0451	33	0.383	1.30	1.862	0.604	2.205	0.044	0.337	1.768	0.461	9.11	1377	0.2596	0.307	-0.513	0.335	2.289	0.950
	600T125-54	0.0566	33	0.480	1.63	2.345	0.757	2.209	0.054	0.335	2.299	0.666	13.15	2728	0.5130	0.384	-0.508	0.332	2.292	0.951
	600T125-54	0.0566	50	0.480	1.63	2.345	0.757	2.209	0.054	0.335	2.241	0.592	17.74	2728	0.5130	0.384	-0.508	0.332	2.292	0.951

Gross Properties:

- I_x: Moment of inertia of gross section about the X-X axis (strong axis).
 S_x: Section modulus about the X-X axis (strong axis).
 R_x: Radius of gyration of the gross section about the X-X axis.
 I_y: Moment of inertia of gross section about the Y-Y axis (weak axis).
 R_y: Radius of gyration of the gross section about the Y-Y axis.



Torsional and Other Properties

- J: St. Venant Torsional Constant.
 C_w: Torsional warping constant.
 m: Distance from shear center to mid-plane of web.
 X₀: Distance from the shear center to the centroid along the principal X-axis.
 R₀: Polar radius of gyration about the centroidal principal axis.
 b: 1-(X₀/R₀)²
 L_u: The longest weak axis (L_y) and torsional (L_t) unbraced length at which lateral torsional buckling is restrained in accordance with Section F2.1 of AISI S100-16.

Effective Properties:

- I_{xe}: Effective moment of inertia about the X-axis.
 S_{xe}: Effective section modulus about the X-X axis (strong axis) stress = F_y.
 M_A: Allowable Bending Moment - Based on the effective section modulus and the allowable stress including the strength increase from the cold-work of forming (Section A3.3.2) where applicable.
 M_{AD}: Allowable Bending Moment - Based on Distortional Buckling Strength calculated per Sections F4, F4.1 of AISI S100-16.
 V_{AG}: Allowable strong axis shear away from punchout, calculated in accordance with Section G2 of AISI S100-16.
 V_{ANET}: Allowable strong axis shear at punchout, calculated in accordance with Section G3 of AISI S100-16.

Section Properties Table Notes

17. Calculated properties are based on AISI S100-126 "North American Specification for the Design of Cold-Formed Steel Structural Members."
 18. The centerline bend radius is based upon inside corner radii shown in Table as shown in the Thickness Table (page 3. SFIA Technical Guide for Cold-Formed Steel Framing Products).
 19. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A3.3.2.
 20. Tabulated gross properties, including torsional properties, are based upon full-unreduced cross section of the studs, away from punchouts.
 21. For deflection calculations, use the effective moment of inertia.
 22. Allowable moment includes cold-work of forming.
 23. For the steel that has both 33 and 50 ksi listing, if the design is based upon 50 ksi, the 50 ksi needs to be specified. (Example: 3625 S137 16-50 (50ksi)).
 24. Web depth for track sections is equal to the nominal stud width plus 2 times the design thickness plus the bend radius. Hems on nonstructural track sections are ignored.

PHYSICAL & STRUCTURAL PROPERTIES

8" STRUCTURAL (S) STUD SECTION PROPERTIES

					GROSS PROPERTIES					EFFECTIVE PROPERTIES						TORSIONAL PROPERTIES						
	DESIGN THICKNESS	F _y	AREA	WEIGHT	I _x	S _x	R _x	I _y	R _y	I _x	S _x	M _A	M _{AD}	V _{AG}	V _{ANET}	JX1000	C _w	X ₀	M	R ₀	β	L _u
Member	(in)	(ksi)	(in ²)	(lb/ft)	(in ⁴)	(in ³)	(in)	(in ⁴)	(in)	(in ⁴)	(in ³)	(in-k)	(in-k)	(lb)	(lb)	(in ⁴)	(in ⁶)	(in)	(in)	(in)	β	(in)
800S162-33'	0.0346	33	0.413	1.41	3.583	0.896	2.944	0.125	0.550	3.385	0.710	14.03	12.16	474	474	0.165	1.630	-0.936	0.607	3.138	0.911	40.1
800S162-43	0.0451	33	0.537	1.83	4.635	1.159	2.938	0.160	0.546	4.500	1.019	20.14	17.62	1051	1051	0.364	2.076	-0.926	0.601	3.128	0.912	39.8
800S162-54	0.0566	33	0.670	2.28	5.737	1.434	2.927	0.194	0.539	5.702	1.334	26.36	23.96	2091	2091	0.715	2.539	-0.914	0.594	3.114	0.914	39.6
800S162-54	0.0566	50	0.670	2.28	5.737	1.434	2.927	0.194	0.539	5.600	1.229	36.79	31.31	2091	2091	0.715	2.539	-0.914	0.594	3.114	0.914	32.1
800S162-68	0.0713	50	0.836	2.84	7.092	1.773	2.913	0.235	0.530	7.070	1.664	49.81	42.89	4221	3367	1.416	3.093	-0.899	0.586	3.094	0.916	31.9

Web-height-to-thickness ratio exceeds 200. Web Stiffeners are required at all support points and concentric loads. Suitability of web holes must be evaluated independently.

8" (T) TRACK SECTION PROPERTIES

			GROSS PROPERTIES					EFFECTIVE PROPERTIES					TORSIONAL PROPERTIES						
	DESIGN THICKNESS	F _y	AREA	WEIGHT	I _x	S _x	R _x	I _y	R _y	I _x	S _x	M _A	V _{AG}	JX1000	C _w	X ₀	M	R ₀	β
Member	(in)	(ksi)	(in ²)	(lb/ft)	(in ⁴)	(in ³)	(in)	(in ⁴)	(in)	(in ⁴)	(in ³)	(in-k)	(lb)	(in ⁴)	(in ⁶)	(in)	(in)	(in)	β
800T125-33'	0.0346	33	0.363	1.00	2.897	0.711	2.824	0.036	0.313	2.442	0.407	8.03	465	0.1449	0.456	-0.439	0.294	2.875	0.977
800T125-43	0.0451	33	0.473	1.30	3.774	0.925	2.824	0.046	0.311	3.484	0.640	12.65	1030	0.3208	0.589	-0.436	0.292	2.875	0.977
800T125-54	0.0566	33	0.594	1.63	4.747	1.158	2.828	0.057	0.309	4.668	0.940	18.58	2039	0.6339	0.735	-0.432	0.289	2.877	0.977
800T125-54	0.0566	50	0.594	1.63	4.747	1.158	2.828	0.057	0.309	4.427	0.824	24.66	2039	0.6339	0.735	-0.432	0.289	2.877	0.977

Web-height to thickness ratio exceeds 200. Web stiffeners are required at all support points and concentrated loads.

Gross Properties:

- I_x: Moment of inertia of gross section about the X-X axis (strong axis).
- S_x: Section modulus about the X-X axis (strong axis).
- R_x: Radius of gyration of the gross section about the X-X axis.
- I_y: Moment of inertia of gross section about the Y-Y axis (weak axis).
- R_y: Radius of gyration of the gross section about the Y-Y axis.



Torsional and Other Properties

- J: St. Venant Torsional Constant.
- C_w: Torsional warping constant.
- m: Distance from shear center to mid-plane of web.
- X₀: Distance from the shear center to the centroid along the principal X-axis.
- R₀: Polar radius of gyration about the centroidal principal axis.
- b: 1-(X₀/R₀)²
- L_u: The longest weak axis (L_y) and torsional (L_t) unbraced length at which lateral torsional buckling is restrained in accordance with Section F2.1 of AISI S100-16.

Effective Properties:

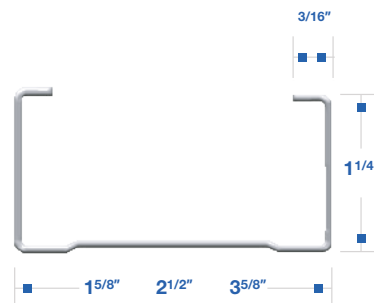
- I_{xe}: Effective moment of inertia about the X-axis.
- S_{xe}: Effective section modulus about the X-X axis (strong axis) stress = F_y.
- M_a: Allowable Bending Moment - Based on the effective section modulus and the allowable stress including the strength increase from the cold-work of forming (Section A3.3.2) where applicable.
- M_{ad}: Allowable Bending Moment - Based on Distortional Buckling Strength calculated per Sections F4, F4.1 of AISI S100-16.
- V_{ag}: Allowable strong axis shear away from punchout, calculated in accordance with Section G2 of AISI S100-16.
- V_{anet}: Allowable strong axis shear at punchout, calculated in accordance with Section G3 of AISI S100-16.

Section Properties Table Notes

25. Calculated properties are based on AISI S100-126 "North American Specification for the Design of Cold-Formed Steel Structural Members."
26. The centerline bend radius is based upon inside corner radii shown in Table as shown in the Thickness Table (page 3. SFIA Technical Guide for Cold-Formed Steel Framing Products).
27. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A3.3.2.
28. Tabulated gross properties, including torsional properties, are based upon full-unreduced cross section of the studs, away from punchouts.
29. For deflection calculations, use the effective moment of inertia.
30. Allowable moment includes cold-work of forming.
31. For the steel that has both 33 and 50 ksi listing, if the design is based upon 50 ksi, the 50 ksi needs to be specified. (Example: 3625 S137 16-50 (50ksi).
32. Web depth for track sections is equal to the nominal stud width plus 2 times the design thickness plus the bend radius. Hems on nonstructural track sections are ignored.



DIMENSIONS



Non EQ

Above are the principal elements to form a light-weight structure. These are normally used in a vertical position. Each Metal Stud with knurled flanges are pre-punched at regular intervals specifically designed to facilitate electrical and hydraulic installation (wiring, plumbing, etc.). Customizable cut to length sizes are available upon request.

Punching Space between the punching can be customized by the customer. It does require indication at time of order.

Coating NonStructural Framing [G40](#)

PRODUCT NAME	GAUGE	MILS	DESIGN THICKNESS (IN)	KSI	WEB WIDTH (IN)
SUPRA Stud 18 Mils	25	18	0.019	33	1-5/8, 2-1/2, 3-5/8
SUPRA Stud 33 Mils	20	33	0.0346	33	1-5/8, 2-1/2, 3-5/8

MEMBER DEPTHS	FLANGE WIDTH	RETURN LIP
(162) 1-5/8"	1-1/4"	0.1875
(250) 2-1/2"	1-1/4"	0.1875
(362) 3-5/8"	1-1/4"	0.1875

Depth 1-5/8"

PRODUCT DATA	
Length:	10'
Pieces per bundle:	16
Pieces per pallet:	360
Total linear feet:	3600

Depth 2-1/2"

PRODUCT DATA	
Length:	10'
Pieces per bundle:	12
Pieces per pallet:	360
Total linear feet:	3600

Depth 3-5/8"

PRODUCT DATA	
Length:	10'
Pieces per bundle:	8
Pieces per pallet:	360
Total linear feet:	3600

- Custom packaging is available (amount of pieces), Please check with your Sales Contact.
- 10' standard length for Studs & Tracks. Custom orders are available.
- Please check with your Sales Contact.



NON-STRUCTURAL STUD

Section Properties

PRODUCT	FY (KSI)	DESIGN THICKNESS (IN)	GROSS PROPERTIES							EFFECTIVE PROPERTIES 33 KSI				
			AREA (IN ²)	WEIGHT (LB/FT)	IX (IN ⁴)	SX (IN ²)	RX (IN)	IV (IN ⁴)	RV (IN)	IX (IN ⁴)	SX (IN ²)	MA (IN/K)	MAD (IN/K)	VAG/VANET (LB)
162S125-18	33	0.0188	0.080	0.27	0.038	0.046	0.686	0.016	0.447	0.034	0.031	0.61	0.59	302/100

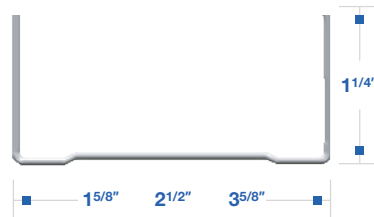
PRODUCT	FY (KSI)	DESIGN THICKNESS (IN)	GROSS PROPERTIES							EFFECTIVE PROPERTIES 33 KSI				
			AREA (IN ²)	WEIGHT (LB/FT)	IX (IN ⁴)	SX (IN ²)	RX (IN)	IV (IN ⁴)	RV (IN)	IX (IN ⁴)	SX (IN ²)	MA (IN/K)	MAD (IN/K)	VAG/VANET (LB)
250S125-18	33	0.0188	0.097	0.33	0.099	0.079	1.014	0.019	0.439	0.089	0.060	1.18	0.93	258/196

PRODUCT	FY (KSI)	DESIGN THICKNESS (IN)	GROSS PROPERTIES							EFFECTIVE PROPERTIES 33 KSI				
			AREA (IN ²)	WEIGHT (LB/FT)	IX (IN ⁴)	SX (IN ²)	RX (IN)	IV (IN ⁴)	RV (IN)	IX (IN ⁴)	SX (IN ²)	MA (IN/K)	MAD (IN/K)	VAG/VANET (LB)
362S125-18	33	0.0188	0.118	0.40	0.234	0.129	1.409	0.021	0.421	0.215	0.075	1.48	1.38	173/163





DIMENSIONS



Non EQ Products

These tracks are used normally in horizontal positions to secure and align metal studs to the floor and ceiling. These two combined are used in order to form the light structure of a division wall.

Coating NonStructural Framing G40

PRODUCT NAME	GAUGE	MILS	DESIGN THICKNESS (IN)	KSI	WEB WIDTH (IN)
SUPRA Stud 18 Mils	25	18	0.019	33	1-5/8, 2-1/2, 3-5/8
SUPRA Stud 33 Mils	20	33	0.0346	33	1-5/8, 2-1/2, 3-5/8

MEMBER DEPTHS	FLANGE WIDTH
(162) 1-5/8"	1-1/4"
(250) 2-1/2"	1-1/4"
(362) 3-5/8"	1-1/4"

Depth 1-5/8"

PRODUCT DATA	
Length:	10'
Pieces per bundle:	16
Pieces per pallet:	360
Total linear feet:	3600

Depth 2-1/2"

PRODUCT DATA	
Length:	10'
Pieces per bundle:	12
Pieces per pallet:	360
Total linear feet:	3600

Depth 3-5/8"

PRODUCT DATA	
Length:	10'
Pieces per bundle:	8
Pieces per pallet:	360
Total linear feet:	3600

- Custom packaging is available (amount of pieces), Please check with your Sales Contact.
- 10' standard length for Studs & Tracks. Custom orders are available.
- Please check with your Sales Contact.



NON-STRUCTURAL TRACK

Section Properties

PRODUCT	FY (KSI)	DESIGN THICKNESS (IN)	GROSS PROPERTIES							EFFECTIVE PROPERTIES 33 KSI			
			AREA (IN ²)	WEIGHT (LB/FT)	IX (IN ⁴)	SX (IN ⁴)	RX (IN)	IY (IN ⁴)	RY (IN)	IX (IN ⁴)	SX (IN ⁴)	MA (IN/K)	VAG (LB)
162T125-18	33	0.0188	0.078	0.26	0.042	0.048	0.733	0.013	0.411	0.030	0.025	0.50	302

PRODUCT	FY (KSI)	DESIGN THICKNESS (IN)	GROSS PROPERTIES							EFFECTIVE PROPERTIES 33 KSI			
			AREA (IN ²)	WEIGHT (LB/FT)	IX (IN ⁴)	SX (IN ⁴)	RX (IN)	IY (IN ⁴)	RY (IN)	IX (IN ⁴)	SX (IN ⁴)	MA (IN/K)	VAG (LB)
250T125-18	33	0.0188	0.094	0.32	0.104	0.079	1.052	0.015	0.400	0.078	0.044	0.88	245

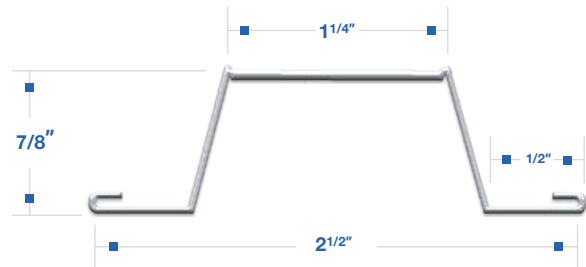
PRODUCT	FY (KSI)	DESIGN THICKNESS (IN)	GROSS PROPERTIES							EFFECTIVE PROPERTIES 33 KSI			
			AREA (IN ²)	WEIGHT (LB/FT)	IX (IN ⁴)	SX (IN ⁴)	RX (IN)	IY (IN ⁴)	RY (IN)	IX (IN ⁴)	SX (IN ⁴)	MA (IN/K)	VAG (LB)
362T125-18	33	0.0188	0.115	0.39	0.238	0.127	1.437	0.017	0.380	0.189	0.064	1.26	167



SUPRA Accessories



DIMENSIONS



Furring (Hat) Channel

The furring channel is a hat-shaped framing member designed, to assist so that the gypsum boards that will form the surface of the continuous ceiling, built-in boxes or border plates can be fixed to it with screws. Its geometry allows it to be fixed under the channel. The furring channel can also be used to cover the masonry or concrete walls with gypsum boards as a paneling.

THICKNESS					
Gauge	Mils	Desing Thickness	Size (in)	Length (ft)	Coating
25	18	0.019	7/8"	10', 12'	G40
20	33	0.0346	7/8"	10', 12'	G60

PRODUCT DATA	CAL. 25 Y 20
Length:	10'
Pieces per bundle:	10
Pieces per pallet:	420
Total linear feet:	4200

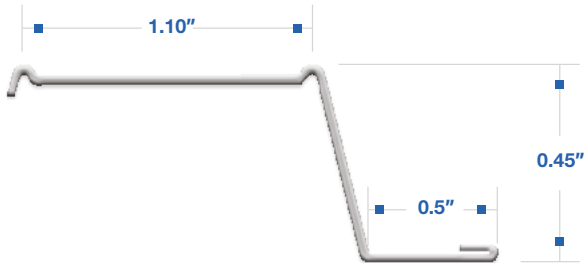
HAT FURRING CHANNEL PROPERTIES

PRODUCT	FY (ksi)	DESIGN THICKNESS (in)	GROSS PROPERTIES						EFFECTIVE PROPERTIES 33 KSI			
			AREA (in²)	WEIGHT (lb/ft)	IX (in⁴)	RX (in)	IY (in⁴)	RY (in)	IX (in⁴)	SX (in³)	MA (in/lbs)	VAG/VANEY (lb)
087F125-18	33	0.0188	0.072	0.244	0.009	0.354	0.035	0.698	0.008	0.016	26.61	255
087F125-33	33	0.0346	0.130	0.443	0.016	0.349	0.062	0.689	0.016	0.034	56.23	464

SUPRA Accessories



DIMENSIONS



Resilient Channel (RC 1)

This metal channel is designed to be placed as a support for installing panels on wooden or metal frames and its main function is to isolate noise.

PRODUCT	THICKNESS			SIZE (IN)	LENGTH (FT)	COATING
	GAUGE	MILS	DESIGN THICKNESS			
045R110-18	25	18	0.019	1.10"	12'	G40

PRODUCT DATA	
Length:	12'
Pieces per bundle:	20
Pieces per pallet:	1000
Total linear feet:	1200

SUPRA Accessories



DIMENSIONS



Corner Bead 6', 8' & 10'

Corner Beads are used to protect the corners of gypsum board walls and all edges that are exposed to potential damage from blows (around doors, windows or niches) or any damage due to use.

PRODUCT DATA			
Length:	10'	8'	6'
Pieces per box	50	63	84
Total linear feet:	500	504	504



SUPRA Accessories



Corner Angle 1-1/2” X 1-1/2”

This accessory is designed to be placed in the areas where the soffit of the wall is going to go. Its angle holds the soffit solidly against the walls, and sometimes it works as an auxiliary stud for some difficult walls.

	THICKNESS					
PRODUCT	GAUGE	MILS	DESIGN THICKNESS	SIZE (IN)	LENGTH (FT)	COATING
CAN 90°	25 & 20	18 & 33	0.019 & 0.0346	1.10"	12'	G40



Lateral Flat Strap

This tension element is designed to be placed as a wind bracing between tracks diagonally located to transfer loads.

PRODUCT DATA	
Length:	10'
Pieces per bundle:	200
Peces per pallet:	2000

REFERENCE GAUGE USA	DESIGN THICKNESS (IN)	THICKNESS (MILS)	MINIMUM THICKNESS (IN)
20	0.0346	33	0.0329

NOTES





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