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**HOW TO USE THIS CATALOG**

**NEW PRODUCTS**

New products are shown with the **NEW** symbol. There are also new sizes within existing model series.

**EXTRA CORROSION PROTECTION**

This icon identifies products that are available with additional corrosion protection (*ZMAX*®, *Hot-Dip Galvanized* or *Stainless Steel*). Check with factory for availability. The end of the product name will indicate what type of extra corrosion protection is provided (*Z = ZMAX, HDG = Hot-Dip Galvanized* or *SS = Stainless Steel*). See page 12-13 for information on corrosion. Visit our website [www.strongtie.com/info](http://www.strongtie.com/info) for more technical information on this topic.

**HOW WE DETERMINE ALLOWABLE LOADS**

Allowable loads in this catalog are determined using calculations and/or one or more of the following methods:

- a minimum of 3 static load tests in CFS assemblies;
- a minimum of 3 static load tests in structural steel jigs;
- a minimum of 3 static load tests of products embedded in concrete or masonry.

Some tests include only portions of a product such as purlin anchor tests—only the embedded hook is tested, not the screwed or bolted section of the strap, which is calculated. Testing to determine allowable loads in this catalog is not done on connection systems in buildings. Testing is conducted under the supervision of an independent laboratory. **Typically the allowable load is limited to an average test load at 1/8" deflection, an average or lowest test value (nominal load) divided by a safety factor or the calculation value. The safety factor is prescribed by Section F1 of the 2001 AISI NAS.**

For detailed information regarding how Simpson tests specific products, contact Simpson.

**Dimensions:** This shows the product dimensions (*material thickness, length and width in this case*). The product drawing includes these callouts as a cross-reference.

**Allowable Design Loads:** The maximum load imposed on a connection during the life of a structure. There may be multiple design loads acting in different directions (*up, down, lateral, perpendicular, etc.*) imposed on a connection.

**Model No.:** This is the Simpson product name.

**Fasteners:** This shows the fastener quantity and type required to achieve the table loads.

**Thickness:** CFS supporting member thickness to which the product is attached. Allowable Load is based on this CFS supporting member thickness.

**Code Ref:** See page 8 for the Code Listing Key Chart, to determine which code reports include this product.

Model No.	Material Thk. mil (ga)	L	W	Fasteners						Code Ref.	
				Rafter/Stud/Joist Thickness			Allowable Tension Load				
				33 mil (20 ga)	43 mil (18 ga)	54 mil (16 ga)	33 mil (20 ga) (100)	43 mil (18 ga) (100)	54 mil (16 ga) (100)		
PA18	97 (12 ga)	18½	2½	16- #10	15- #10	10- #10	2830	3685	3685	3685	151
PA23		23¾		21- #10	18- #10	16- #10	3685	3685	3685	3685	
PA28		32½		23- #10	22- #10	21- #10	3685	3685	3685	3685	
PA35		35		30- #10	29- #10	28- #10	3685	3685	3685	3685	
HPA28	118	21½	28- #10	26- #10	25- #10	4845	4845	4845	4845		
HPA35	110	38½	32- #10	30- #10	27- #10	5420	5420	5420	5420		

**OTHER CATALOG DEFINITIONS:**

**Deflection:** The distance a point moves when a load is applied.

**Nominal Tension Load (Strength):** The capacity of a structure or component to resist the effects of loads, as determined in accordance with 2001 AISI NAS using specified material strengths and dimensions. Typically taken as the average value of at least 3 tests.

The Nominal Tension Load should not be compared against design loads (ASD, LRFD), but used only where the AISI Lateral Design Standard requires the holdown to have nominal tension load (strength) to resist lesser of amplified seismic load or what the system can deliver.