

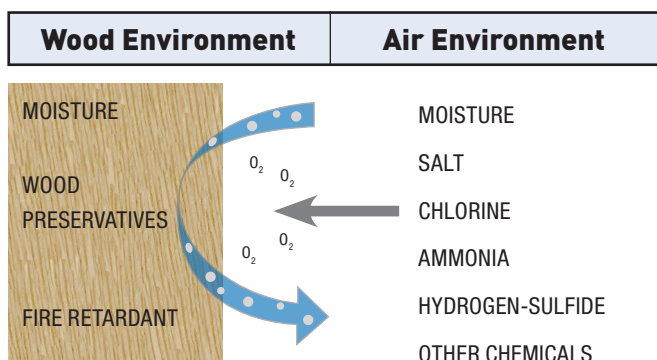


# Corrosion Protection

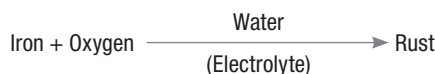
For the majority of applications, metal hangers and connectors are used in interior, above ground, dry service conditions. They are typically not being exposed to corrosive environments which can significantly reduce their strength and longevity.

### What is Corrosion?

Corrosion is the destructive degradation of steel due to its interaction with the environment. Here the steel is the connector and the environment is whatever the connector interacts with, namely wood and air. Each environment may contain one or more corrodents (substances that cause corrosion) acting independently or in combination to degrade the strength of the connectors.



Electrochemical oxidation is the most common type of corrosion affecting metal connectors. It is a process in which iron (Fe) reacts with oxygen (O<sub>2</sub>) in the presence of an electrolyte such as water (H<sub>2</sub>O) to form iron oxide (Fe<sub>2</sub>O<sub>3</sub>), a brown and flaky by-product commonly known as rust.



Steel is an iron-based metal alloy which is susceptible to this type of corrosion, even when exposed to normal atmospheric air, since air contains oxygen and water as part of its normal composition. While steel is very strong, rust is not. Over time, the continuous formation of rust eats away the base metal and reduces the strength of the connector. The rate of oxidation generally increases with increasing moisture content, the presence of salt, or when galvanic corrosion is a contributing factor.

Galvanic Series (Abbreviated)	
More Active (Anodic-)	
↑	Zinc
	Aluminum
	Steel
	Brass
	Copper Nickel
	Stainless Steel - Type 304
Stainless Steel - Type 316	
More Passive (Cathodic +)	

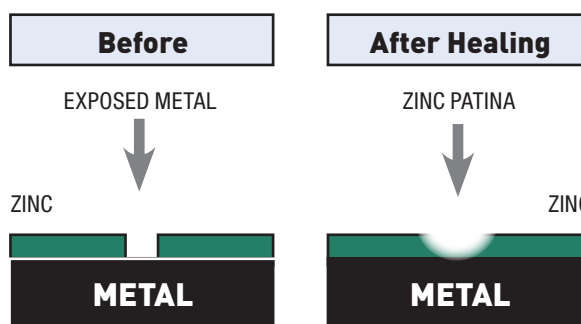
Galvanic corrosion occurs when there is an interaction between dissimilar metals that are in contact with one another. The degree of corrosion depends on where the metals reside in the galvanic series, which is a compilation of known metals and their relative reactivity. The more active metal (anode) will corrode preferentially while shielding the more passive metal (cathode) from further degradation. For example, with galvanized steel, zinc is used as a coating on

the steel because it sacrificially corrodes to protect the steel substrate underneath. The coupling between zinc and steel is said to have a lower galvanic potential than the coupling between zinc and stainless steel because zinc and steel are closer to each other in the galvanic series. In general, the coupling with a lower galvanic potential would result in a slower corrosion rate.

### Corrosion Protection Options

#### Zinc Galvanizing:

Most connectors are manufactured from pre-galvanized sheet steel or coiled steel, which is typically made by the hot-dip process in accordance with ASTM-A653 and ASTM-A924 standards. Fasteners are galvanized in accordance with ASTM-A153. In the manufacturing of the connectors, the punching and shearing processes create exposed bare metal surfaces. Thankfully, zinc has an incredible ability to 'heal' itself; the zinc around the exposed metal corrodes and deposits a layer of zinc corrosion by-product called zinc patina (white powdery appearance) over the exposed metal to further protect it.



By being more reactive than steel, zinc sacrificially corrodes at a steady rate over time to shield the steel from the effect of corrosion. The protection ability of zinc is proportional to its thickness, which is proportional to the amount of zinc applied. Zinc coating is specified as the total weight on both sides of the sheet steel, measured in ounces per square foot (oz/ft<sup>2</sup>). For example, G90 means that there are 0.90 oz/ft<sup>2</sup>; G185 has 1.85 oz/ft<sup>2</sup> and would last about two times longer than G90. G90 is the minimum protection for connectors and is standard in MiTek connectors.

#### Design Guidelines:

Where there are governing national or local building code requirements, they should be used in the selection of the connectors and their protection against corrosion. In the absence of such requirements, the decision rests on the experience and judgment of the building designer/engineer. Design guidelines are presented in this section to aid the building designer/engineer in this selection process, but it is the responsibility of the building designer/engineer to determine the most viable solution based on an evaluation of the connectors to the specific corrosive environment(s). The guidelines consist of best practices, recommended protection levels for the connectors, and strength modification factors for the lumber/connectors.

Where there are multiple options suggested, do not automatically default to the lowest protection level. The lower protection level is intended to address less severe conditions while the higher protection level is meant to address more severe conditions. Select the option that eliminates or adequately reduces the vulnerability of the connectors to the corrodents. When in doubt, use a higher level of protection than anticipated or seek professional consultation.

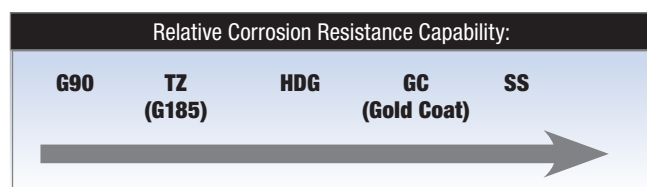
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**Relative Corrosion Resistance Capability:**

The chart below ranks the available options in terms of their relative effectiveness against corrosion. As expected, the ability to resist corrosion increases with increasing zinc thickness, so G185 is the most durable pre-galvanized product available. Gold Coat offers enhanced protection compared to G185 while stainless steel offers the best protection for most applications.

**Galvanic Corrosion:**

The simplest and most practical solution to minimize galvanic corrosion is to make sure that the components that are in direct contact with each other are made of the same material or coating. Once this is achieved, there is no net galvanic potential between the components and galvanic corrosion is eliminated or significantly reduced. For example, use galvanized nails for galvanized connectors and stainless steel nails for stainless steel connectors.

**Wet Service Condition:**

For lumber, this refers to any service condition in which the average equilibrium moisture content is 15% or more over a year or may exceed 19% at any time. For lumber to get above 19% moisture, the relative humidity in the air needs to reach above 80%. Unfortunately, this is above the critical humidity level for the electrochemical oxidation of steel, which is around 70%. Beyond 70%, the rate of corrosion in the connectors increases rapidly due to the abundant availability of moisture.

G90 may not be suitable for use in wet service condition.

**Preservative (Pressure) Treated Wood:**

There are many preservative wood treatment formulations available on the market today. The element that is common to most of them is the presence of copper in the formulation which can contribute to the corrosion of steel connectors and fasteners.

Of the copper based preservatives, the two types are micronized copper and soluble copper. Micronized copper formulations MCA (micronized copper azole) and MCQ (micronized copper quat) are sold under different brand names and are the most predominant formulation in today's preservative treated wood industry. Soluble copper formulations CA (copper azole) and ACQ (alkaline copper quat) have also been very popular since they replaced CCA (chromated copper arsenate) which was phased out in 2004. Some "metal free" preservatives are still used for above ground and sill plate applications, but are not as common. One of the main criterion affecting the selection of one preservative treatment over another is the type of wood being treated and how well it can be penetrated by the treatment.

While many of the advanced wood treatment formulations containing copper used today have proven to be less corrosive to steel, especially micronized copper, MiTek recommends a higher level of corrosion protection for connectors in contact with copper based wood treatments.

Connectors and fasteners in contact with metal free wood preservatives do not require additional corrosion protection due to the preservative itself, however all factors that can create the corrosive environment should be considered when selecting the appropriate finish. If unsure as to whether a particular treatment is corrosive to steel fasteners, check with the supplier of the preservative treated wood product for their recommendation.

**Fire Retardant Treated (FRT) Wood:**

Although most common FRT products are not corrosive to metal connectors, not all products are non-corrosive. Additionally, they typically require proprietary strength reductions applied to the lumber in accordance with the manufacturer's specifications. Since the lumber strength is lower, the lateral and withdrawal resistance of nails must also be reduced accordingly. It is important to note that some fire retardants cause the wood to absorb more moisture from the air than untreated lumber. Consequently, the connector may be exposed to a higher level of moisture, resulting in more corrosion.

**Swimming Pools:**

This is one of the most hazardous environments for steel connectors due to continuous exposure to high temperature, high moisture content, and corrosive chemicals such as chlorine, bromine, and other disinfectants. The combination of all these factors can lead to accelerated corrosion and premature structural failure. This environment is so corrosive that all possible preventive measures should be employed to prevent the hanger from being exposed to the pool water. These include the use of a vapor barrier and a ventilation system that does not take the air from the pool environment.

Additionally, it has been known that certain grades of stainless steel (316 and others) are susceptible to a mode of structural failure known as stress corrosion cracking (SCC) when exposed to a swimming pool environment. SCC is usually localized near areas of high residual stress and small cracks can rapidly propagate and cause catastrophic failures. See warning below.

 **WARNING**

Stainless steel connectors and fasteners shall not be used for metal hangers over swimming pools due to stress corrosion cracking. SCC has been known to occur under the following conditions:

- Use of certain grades of stainless steel (grades 316 and others).
- Structural members subjected to high tensile stress.
- Presence of certain chemicals, including chlorine and bromine.

Gold Coat may be the best choice in this environment.

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# Corrosion Protection

The **Structural Connectors Coating Recommendations** chart below was developed by reviewing field service performance and accelerated corrosion test results. They are offered as general guidelines and are not intended to cover all possible service conditions. Additional consideration may also be needed for:

- wet service conditions
- preservation treated lumber
- fire retardant treated lumber
- strength reducing chemicals
- building near salt water coastal areas

Additionally, the **Corrosion Protection Guidelines** to the right may also be used to assist in making the proper choice of corrosion protection.

The building designer/engineer has the ultimate responsibility of selecting the most viable protective coating based on knowledge of project specific corrosive environments and local building code requirements.

### Corrosion Protection Guidelines:

- MiTek recommends stainless steel connectors for the highest level of corrosion protection. As an economical alternative to stainless steel our new Gold Coat connectors are specifically designed for exterior application when in contact with preservative treated wood.
- For connectors in contact with preservative treated wood, the Triple Zinc option provides the minimum G-185 coating thickness required by code and is an economical alternative for exterior applications.
- The use of correct fastener with the connector is critical. Stainless steel connectors require stainless steel fasteners. For exterior applications, hot-dip galvanized fasteners (HDG) or exterior coat (EXT) must be used with both Triple Zinc and hot-dip galvanized finishes. Gold Coat connectors require gold coat or hot-dip galvanized fasteners.
- MiTek's zinc dichromate WS Structural Wood Screws are not recommended for use with preservative or fire-retardant treated wood. Some structural wood screws are available in Gold Coat or exterior coat.
- MiTek clearly differentiates standard interior G90 connectors from the corrosion resistant connectors. Gold Coat connectors are distinguishable from other connectors due to their gold color.

### Structural Connectors Coating Recommendations

AWPA <sup>9</sup> Use Category	Service Conditions	Use Environment	Example Applications	Preservatives and Retentions <sup>6,7,10</sup>	Minimum Coating Requirements <sup>1,2,3,4</sup>
<b>UC1</b> Interior/Dry	Interior construction, Above ground, Dry	Continuously protected from weather or other sources of moisture	General framing, interior construction	Untreated	G90
<b>UC2</b> Interior/Damp	Interior construction, Above ground, Damp	Protected from weather, but may be subject to sources of moisture	Sill plates	SBX-DOT, Organic ACQ-D (0.15), CA-B (0.10), CA-C (0.06), MCQ (0.06), µCA-C (0.05)	G90 Triple Zinc (G-185) <sup>8,9</sup> , HDG (post hot dipped), Exterior Coat <sup>12</sup>
<b>UC3A</b> Above Ground Protected	Exterior construction, Above ground, Rapid water runoff	Exposed to all weather cycles, not exposed to prolonged wetting	Exposed exterior beams or columns in an open, covered structure	ACQ-D (0.25), MCQ (0.15), CA-B (0.10), CA-C (0.06), µCA-C (0.05), Organic	Triple Zinc (G-185), HDG (post hot dipped), Exterior Coat <sup>12</sup> or MiTek Gold Coat
<b>UC3B</b> Above Ground Exposed	Exterior construction, Above ground, Poor water runoff	Exposed to all weather cycles, including prolonged wetting	Deck beams and joists	ACQ-D (0.25), MCQ (0.15), CA-B (0.10), CA-C (0.06), µCA-C (0.05), Organic	Triple Zinc (G-185), HDG (post hot dipped), or MiTek Gold Coat
<b>UC4A</b> Ground Contact General Use	Ground contact, Fresh water; includes above ground applications	Ground contact or fresh water exposed to all weather cycles, Normal exposure	Deck posts, beams and joists. Fresh water docks <sup>11</sup>	ACQ-D (0.40), MCQ (0.23), CA-B (0.21), CA-C (0.15), µCA-C (0.14)	Triple Zinc (G-185), HDG (post hot dipped), or MiTek Gold Coat <sup>5</sup>
<b>UC4B</b> Ground Contact Heavy Duty	Exterior construction, Ground contact, Critical components	Ground contact, fresh/salt water water splash exposed to all weather cycles	Permanent wood foundations, critical structural members	ACQ-D (0.60), MCQ (0.23), CA-B (0.31), CA-C (0.25), µCA-C (0.23)	Stainless Steel

1) G90 and G-185 refer to galvanization requirements for ASTM A653 material.  
 2) Connectors galvanized to ASTM A123 may be used in place of either G90 or G185 coatings.  
 3) Other coating may be suitable for a given environment if the conditions are known and predictable.  
 4) For G185 connectors use fasteners galvanized per ASTM A153. For Gold Coat connectors, use Gold Coat fasteners and for stainless steel connectors, use stainless steel fasteners.  
 5) If the environment has the potential to contain elements which may make it more corrosive, the use of stainless steel is recommended.  
 6) MCQ is a micronized copper treatment such as *Micro Pro* by Koppers. µCA-C is a dispersed copper treatment manufactured by Arch Treatment Technologies. Organic preservatives include L<sup>3</sup> from Arch Treatment Technologies and EcoLife II from Viance, LLC.  
 7) For wood treatments not shown, contact MiTek or the wood preservative manufacturer for recommended coatings.  
 8) Testing by MiTek has found that in interior applications where the treated wood will remain relatively dry during its service life the use of G90 connectors with MCQ or µCA-C treated wood is appropriate.  
 9) American Wood Protection Association Standard U1-16.  
 10) SBX/DOT= Sodium Borate; ACQ-D = Alkaline Copper Quat Type D; CA-B = Copper Azole Type B; CA-C = Copper Azole Type C; MCQ = Micronized Copper Quat; µCA-C = Dispersed Copper Azole Type C. The number listed in the parenthesis is the required retention level in pounds per cubic foot, or PCF.  
 11) Deck joists and beams must be treated to Use Category UCA4 when they are difficult to maintain, repair or replace and are critical to the performance and safety of the deck.  
 12) Users must perform periodic inspection and provide regular maintenance to ensure the satisfactory performance of the structure.

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# Corrosion Protection

## Corrosion Resistant Finishes

MiTek offers several corrosion resistant finishes to cover a range of corrosion performance.

Corrosion Protection Level	Finish / Material	Description	Required Fastener	Ordering
<b>CONNECTORS</b>				
	Primer	Primer paint is used to protect steel during shipping and installation but is not considered a corrosion protection method when installed in corrosive environments.	Bright fasteners	Stock number as listed in the chart
	G90 Galvanizing	Galvanizing provides a prefabrication coating of 0.90 ounces of zinc per square foot of surface area (both sides) measured in accordance with ASTM A 653.	Bright fasteners	Stock number as listed in the chart
	Triple Zinc (TZ) (G-185 Galvanizing)	TZ galvanizing provides a prefabrication coating of 1.85 (G-185) ounces of zinc per square foot of surface area (both sides) measured in accordance with ASTM A 653.	Hot-dip galvanized or Exterior Coat fasteners	To order, add TZ to stock number, as in C44-TZ
	Hot-Dip Galvanized (HDG)	HDG coating provides an after-fabrication hot-dipped zinc coating. The coating thickness is dependent on the connector material, but generally ranges from 1.2 to 2.3 ounces of zinc per square foot of surface area (both sides). Hot-dip products meet requirements set forth in ASTM A 123.	Hot-dip galvanized or Exterior Coat fasteners	To order, add HDG to stock number, as in KCC44-HDG
	Gold Coat (GC)	Gold Coat is a proprietary multi-layer protection system. It is comprised of a top coat barrier layer and a zinc layer placed over a steel substrate.	Gold Coat or Hot-dip galvanized fasteners	To order, add GC to stock number, as in AC7-GC
	Stainless Steel (SS)	Best option for corrosion protection. Quality stainless steel (316SS grade steel) is used to fabricate connectors. Although costs are higher, some applications may need the virtual corrosion proof quality of stainless steel.	Stainless Steel fasteners	To order, add SS to stock number, as in PBES44-SS
<b>FASTENERS</b>				
	Yellow Zinc	Zinc yellow chromate finish		Stock number as listed in the chart
	Hot-Dip Galvanized (HDG)	HDG coating provides an after-fabrication hot-dipped zinc coating. The coating thickness is dependent on the connector material, but generally ranges from 1.2 to 2.3 ounces of zinc per square foot of surface area (both sides). Hot-dip products meet requirements set forth in ASTM A 123.		Stock number as listed in the chart
	Exterior Coat (EXT)	EXT finish is a double barrier coating over zinc.		Stock number as listed in the chart
	Gold Coat (GC)	Gold Coat is a proprietary multi-layer protection system. It is comprised of a top coat barrier layer and a zinc layer placed over a steel substrate.		Stock number as listed in the chart
	Stainless Steel (SS)	Best option for corrosion protection.		Stock number as listed in the chart

**DISCLAIMER** – The general information and guidelines provided in this MiTek Product Catalog shall not be used as a substitute for competent professional examination and verification. It is the responsibility of the building designer/engineer to determine the applicability and suitability of the information provided. Anyone making use of this information assumes all responsibility and liability arising from such use.

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# Corrosion Protection

## Corrosion Resistant Product Offering

MiTek USP Stock No.	Triple Zinc G-185 (TZ)	Hot-Dip Galv. (HDG)	Exterior Coat (EXT)	Gold Coat (GC)	Stainless Steel (SS)	MiTek USP Stock No.	Triple Zinc G-185 (TZ)	Hot-Dip Galv. (HDG)	Gold Coat (GC)	Stainless Steel (SS)	MiTek USP Stock No.	Triple Zinc G-185 (TZ)	Hot-Dip Galv. (HDG)	Gold Coat (GC)	Stainless Steel (SS)	
<b>Fasteners / Anchors</b>						<b>Holddowns / Foundation Anchors</b>						<b>Column / Post Caps</b>				
AB1212-HDG						STB36	USA				PBS66R					
AB126-HDG						STBL24					PCM44					
AB128-HDG						TA51	USA				PCM4416					
AB5812-HDG						TA71	USA				PCM46					
BP12						TDL5					PCM4616					
BP583						TDX2-TZ					PCM4816					
HBPS12						<b>Column / Post Caps</b>						PCM66				
HBPS58						BC400-TZ					PCM6616					
LBP12-TZ						BCS22-4					<b>Column / Post Bases</b>					
LBP58-TZ						BCS23-6					APB44					
LBP512-TZ						C44					APB66					
LBP58-TZ						C46					CBSQ44-TZ					
LL915						C46R					CBSQ46-TZ					
LL930						C66					CBSQ66-TZ					
N10C						C66R					D44-TZ					
N10-GC						EPCM4416					D46					
N16C						EPCM4616					D46R-TZ					
N8-GC						EPCM6616					D66					
NA11						EPCM66					D66R					
NA16D						KCC325-4	USA				EBG44-TZ					
NA20D						KCC325-6	USA				EBP44T-TZ	USA				
NA9D						KCC44	USA				EPB4408					
NA8DHDGPT	USA					KCC46	USA				EPB4608					
N8CHDGPT	USA					KCC48	USA				EPB6608					
NA10DHDGPT	USA					KCC525-4	USA				EPBH44					
N10CHDGPT	USA					KCC525-6	USA				EPBH46R					
NA16DHDGPT	USA					KCC64	USA				EPBH66					
SSN10C						KCC66	USA				EPBH66R					
SSN16C						KCC68	USA				EPBH88					
SSN8C						KCC88	USA				KCB44					
SSNA10D						KCCQ325-4					KCB46					
SSNA8D						KCCQ325-6					KCB48					
THR1218-HDG						KCCQ44					KCB66					
THR1224-HDG						KCCQ46					KCB68					
THR1236-HDG						KCCQ48	USA				KCB88					
THR125-HDG						KCCQ525-4					KCB1010					
THR126-HDG						KCCQ525-6					KCB1212					
THR128-HDG						KCCQ525-8	USA				KCBQ44					
THRS812-HDG						KCCQ64					KCBQ46					
THRS816-HDG						KCCQ66					KCBQ66					
THRS88-HDG						KCCQ71-4	USA				KCBQ88					
WS15						KCCQ71-6	USA				PA44E					
WS2	USA					KCCQ74	USA				PA44					
WS25	USA					KCCQ76	USA				PA46E					
WS3						KECC325-4	USA				PA46					
WS35	USA					KECC325-6	USA				PA55R-TZ	USA				
WS45						KECC44	USA				PA66E					
WS5						KECC46	USA				PA66ER-TZ					
WS6						KECC525-4	USA				PA66R					
WS8						KECC525-6	USA				PA66					
WSBH25-EXT	USA					KECC64	USA				PAU44					
WSBH4-EXT	USA					KECC66	USA				PAU46					
WSBH6-EXT	USA					KECC68	USA				PAU66					
WSBH8-EXT	USA					KECC88	USA				PAU66R-TZ	USA				
WSBH10-EXT	USA					KECCQ325-4	USA				PAU88					
WSWH278	USA					KECCQ325-6	USA				PAU1010					
WSWH358-EXT	USA					KECCQ44					PAU1010R					
WSWH45	USA					KECCQ46					PAU1212					
WSWH5	USA					KECCQ48	USA				PAU1212R					
WSWH6	USA					KECCQ525-4	USA				RPB-TZ					
WSWH8-EXT	USA					KECCQ525-6					RSCH44					
<b>Holddowns / Foundation Anchors</b>						KECCQ525-8	USA				RSCH46					
FA3						KECCQ64					WAS44					
FA4						KECCQ66					WAS46					
FWAN-TZ						KECCQ71-4	USA				WAS66					
LTS19-TZ						KECCQ71-6	USA				WE44					
PA18						KECCQ74	USA				WE46					
PA23						KECCQ76	USA				WE66					
PA28						PB44-6TZ					<b>Framing Plates &amp; Angles</b>					
RP6						PB66-6TZ					A3					
ST1-TZ						PBC44-TZ					AC5					
ST2-TZ						PBC66-TZ					AC7					
STB16						PBES44					AC9					
STB20						PBES66					ANJ44S-HDG					
STB28						PBS44					JA1					
STB34						PBS66					KHL33					

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<b>Framing Plates &amp; Angles</b>					<b>Straps</b>					<b>Hangers</b>				
KHL35					TH12-HDG					SKHH210L-2IF				
KHL37					<b>Hangers</b>					SKHH210R-2				
KHL43					HD210-2IF					SKHH210R-2IF				
KHL46					HD210-3IF					SKHH410L				
KHL55					HD28-2IF					SKHH410LIF				
KHL57					HD410					SKHH410R				
KHL76					HD410IF					SKHH410RIF				
ML24-TZ					HD412					SKHH414LIF				
ML26-TZ					HD412IF					SKHH414RIF				
MP3					HD44IF					SKHH46L				
MP34					HD46					SKHH46LIF				
MP4F					HD46IF					SKHH46R				
MP5					HD48					SKHH46RIF				
MP6F					HD48IF					SUH210	USA			
MP7					HD610					SUH210-2	USA			
MP9					HD610IF					SUH210-3	USA			
MPA1					HD612					THD28-2				
<b>Stud Plate Ties</b>					HD612IF					THD410				
RSPT6					HD68					THD46				
RSPT6-2					HD68IF					THD48				
SPT22					HDQ210-2IF	USA				THDH412				
SPT24					HDQ210-3IF	USA				THDH610	USA			
SPT4					HDQ310IF	USA				<b>Rafter Ties</b>				
SPT6					HDQ410IF	USA				HHCP2				
SPT8					HDQ412IF	USA				HHCP4-TZ				
SPTH4					HDQ610IF					LFTA6				
SPTH6					HDQ612IF					RT10				
SPTH8					HUS210					RT15				
TSP					HUS210-2IF					RT16-2				
<b>Lateral Joist Connectors</b>					HUS212-2					RT16A				
LJC-TZ					HUS26					RT20				
LJQ15-TZ					HUS28					RT3A				
LJQ17-TZ					HUS28-2IF					RT4				
LJQ20-TZ					JL210IF-TZ					RT5				
LJQ23-TZ					JL24IF-TZ					RT7				
LJQ25-TZ					JL26IF-TZ					RT7A				
LJQ35-TZ					JL28IF-TZ					RT8A				
<b>Twist Straps</b>					JPF24					<b>Embedded Truss Anchors</b>				
HTW20					JPF26					HTA20	USA			
LTW12					JUS210					<b>Deck &amp; Fences</b>				
LTW18					JUS210-2					ADTT-TZ				
MTW12					JUS210-3					CSH-TZ				
MTW16					JUS24					DC50-TZ				
MTW20					JUS24-2					DTB-TZ				
MTW30					JUS26					ERB24-TZ				
<b>Straps</b>					JUS26-2					FB14-TZ				
HRS416-TZ					JUS28					FB23-TZ				
HTP37-TZ					JUS28-2					FB24-TZ				
KHST2	USA				JUS28-3					FB26-TZ				
KHST3	USA				JUS36					FPH24-TZ	+			
KRPS22					JUS410					FRB24-TZ				
KRPS28					JUS44					PRT15-TZ				
KST227					JUS46					PRT2H-TZ				
KST237					JUS48					PRT2-TZ	USA			
KST248					KLB210	USA				PRTIC2-TZ				
KST260					KLB212	USA				SCA10-TZ				
L6					LSSH15-TZ					SCA9-TZ				
LH12					LSSH210-TZ					SDJT14-TZ				
LSTA36					LSSH179-TZ					SDPT5-TZ				
MSTA12					LSSH20-TZ					SDPT7-TZ				
MSTA15					LSSH23-TZ					<b>General Hardware</b>				
MSTA18					LSSH25-TZ					ICPL516-TZ				
MSTA21					LSSH26-TZ					ICPL58				
MSTA24					LSSH31-TZ					TTA12-TZ				
MSTA30					LSSH35-TZ					TTA2-TZ				
MSTA36					MSH422					TTB22-TZ				
MSTA9					SKH210L					TTC24-TZ				
MSTAM24					SKH210L-2					TTC42-TZ				
MSTAM36					SKH210R					TTF22-TZ				
PS218-HDG	USA				SKH210R-2					TTR-TZ				
PS418-HDG	USA				SKH26L					TTU2-TZ				
PS720-HDG	USA				SKH26R					WT22				
RS150					SKH28L					WT22B-HDG	+			
RS16-R	USA				SKH28R									
T6					SKHH210L-2									

USA Only available in USA

+ Only available in Canada

### Customer Service & Technical Assistance

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