

## TruZinc® Steel Grade 33 Grade Data Sheet

### General Description

TruZinc® Steel Grade 33 - hot-dip zinc coated structural steel with a zero spangle surface and guaranteed minimum yield strength of 33 ksi with good ductility.

### Typical Uses

Roll-formed roofing, siding and steel studs.

Dimensions				
Typical Thickness (Inches)	Maximum .039" Minimum .012"	Typical width	Maximum 48.9" Minimum 28"	
Maximum and minimum thicknesses outside the typical range stated above may be supplied on an inquiry basis only.				
Mechanical Properties			Chemical Composition	
Steel base	Guaranteed Minimum	Typical	Maximum Percent by Weight	
Longitudinal tensile				
Yield strength, ksi	33	38-51	Carbon (C)	0.20
Tensile strength, ksi	45	54-64	Phosphorus (P)	0.04
Elongation in 2 inch, minimum %	20	27-37	Manganese (Mn)	1.35
Hardness, HRB		53-65	Sulfur (S)	0.04
Supply Condition	Standard	Optional	Fabricating Performance (1-Limited to 5-Excellent, NR-Not Recommended)	
Coating class	G40, G60	G30, G90	Bending	5
Tension leveling	Leveled		Drawing	NR
Surface conditioning	Not Skin-passed	Skin passed, (paint line feed)	Pressing	NR
			Pittsburgh Lock Seam	NR
Chemical treatment	Passivated	Not Passivated	Roll-forming	5
			Welding *	5
			Painting **	5
TruZinc® Plus	Resin Coated			
Oiling	Not Oiled	Oiled		
Branding	Not Branded			

*Optional supply conditions and coating classes may be subject to dimensional restriction.*

\* Design must allow for some strength reduction near welds.

\*\* Thickness range suitable for organic coil coating is 0.0140" to 0.0359"

## TruZinc® Steel Grade 37 Grade Data Sheet

### General Description

TruZinc® Steel Grade 37 - hot-dip zinc coated structural steel with a zero spangle surface and guaranteed minimum yield strength of 37 ksi with good ductility.

### Typical Uses

Roll-formed roofing, siding and steel studs.

Dimensions				
Typical Thickness (Inches)	Maximum .039" Minimum .012"	Typical width	Maximum 48.9" Minimum 28"	
Maximum and minimum thicknesses outside the typical range stated above may be supplied on an inquiry basis only.				
Mechanical Properties		Chemical Composition		
Steel base	Guaranteed Minimum	Typical	Maximum Percent by Weight	
Longitudinal tensile				
Yield strength, ksi	37	39-54	Carbon (C)	0.20
Tensile strength, ksi	52	52-69	Phosphorus (P)	0.10
Elongation in 2 inch, minimum %	18	26-37	Manganese (Mn)	1.35
Hardness, HRB		50-70	Sulfur (S)	0.04
Supply Condition	Standard	Optional	Fabricating Performance (1-Limited to 5-Excellent, NR-Not Recommended)	
Coating class	G40, G60	G30, G90	Bending	5
Tension leveling	Leveled		Drawing	NR
Surface conditioning	Not Skin-passed	Skin passed, (paint line feed)	Pressing	NR
			Pittsburgh Lock Seam	NR
Chemical treatment	Passivated	Not Passivated	Roll-forming	5
			Welding *	5
			Painting **	5
TruZinc® Plus	Resin Coated			
Oiling	Not Oiled	Oiled		
Branding	Not Branded			

Optional supply conditions and coating classes may be subject to dimensional restriction.

\* Design must allow for some strength reduction near welds.

\*\* Thickness range suitable for organic coil coating is 0.0140" to 0.0359"

## TruZinc® Steel Grade 40 Grade Data Sheet

### General Description

TruZinc® Steel Grade 40 - hot-dip zinc coated structural steel with a zero spangle surface and guaranteed minimum yield strength of 40 ksi with good ductility.

### Typical Uses

Roll-formed roofing, siding and steel studs.

Dimensions				
Typical Thickness (Inches)	Maximum .039"	Typical width	Maximum 48.9"	
	Minimum .012"		Minimum 28"	
Maximum and minimum thicknesses outside the typical range stated above may be supplied on an inquiry basis only.				
Mechanical Properties			Chemical Composition	
Steel base	Guaranteed Minimum	Typical	Maximum Percent by Weight	
Longitudinal tensile				
Yield strength, ksi	40	40-51	Carbon (C)	0.25
Tensile strength, ksi	55	55-63	Phosphorus (P)	0.10
Elongation in 2 inch, minimum %	16	27-37	Manganese (Mn)	1.35
Hardness, HRB		51-66	Sulfur (S)	0.04
Supply Condition	Standard	Optional	Fabricating Performance (1-Limited to 5-Excellent, NR-Not Recommended)	
Coating class	G40, G60	G30, G90	Bending	5
Tension leveling	Leveled		Drawing	NR
Surface conditioning	Not Skin-passed	Skin passed, (paint line feed)	Pressing	NR
			Pittsburgh Lock Seam	NR
			Roll-forming	5
Chemical treatment	Passivated	Not Passivated	Welding *	5
			Painting **	5
TruZinc® Plus	Resin Coated			
Oiling	Not Oiled	Oiled		
Branding	Not Branded			

*Optional supply conditions and coating classes may be subject to dimensional restriction.*

\* Design must allow for some strength reduction near welds.

\*\* Thickness range suitable for organic coil coating is 0.0140" to 0.0359"



## TruZinc® Steel Grade 50 (Class 1) Grade Data Sheet

### General Description

TruZinc® Steel Grade 50 (Class 1) - hot-dip zinc coated structural steel with a zero spangle surface and guaranteed minimum yield strength of 50 ksi with good ductility.

### Typical Uses

Roll-formed roofing and decking.

Dimensions				
Typical Thickness (Inches)	Maximum .039" Minimum .019"	Typical width	Maximum 48.9" Minimum 28"	
Maximum and minimum thicknesses outside the typical range stated above may be supplied on an inquiry basis only.				
Mechanical Properties			Chemical Composition	
Steel base	Guaranteed Minimum	Typical <.017" >.017" BMT BMT	Maximum Percent by Weight	
Longitudinal tensile				
Yield strength, ksi	50	50-60 50-60	Carbon (C)	0.25
Tensile strength, ksi	65	65-70 67-73	Phosphorus (P)	0.20
Elongation in 2 inch, minimum %	12	23-36 25-31	Manganese (Mn)	1.35
Hardness, HRB		65-75 65-75	Sulfur (S)	0.04
Supply Condition	Standard	Optional	Fabricating Performance (1-Limited to 5-Excellent, NR-Not Recommended)	
Coating class	G40, G60	G30, G90	Bending	3
Tension leveling	Leveled		Drawing	NR
Surface conditioning	Not Skin-passed	Skin passed, (paint line feed)	Pressing	NR
			Pittsburgh Lock Seam	NR
			Roll-forming	5
Chemical treatment	Passivated	Not Passivated	Welding *	5
TruZinc Plus	Resin Coated		Painting **	5
Oiling	Not Oiled	Oiled		
Branding	Not Branded			

Optional supply conditions and coating classes may be subject to dimensional restriction.

\* Design must allow for some strength reduction near welds.

\*\* Thickness range suitable for organic coil coating is 0.0157" to 0.0359"

## TruZinc® Steel Grade 50 (Class 2) Grade Data Sheet

### General Description

TruZinc® Steel Grade 50 (Class 2) - hot-dip zinc coated structural steel with a zero spangle surface and guaranteed minimum yield strength of 50 ksi with good ductility.

### Typical Uses

Roll-formed roofing and siding.

Dimensions					
Typical Thickness (Inches)	Maximum .039"	Typical width	Maximum 48.9"		
	Minimum .0157"		Minimum 28"		
Maximum and minimum thicknesses outside the typical range stated above may be supplied on an inquiry basis only.					
Mechanical Properties			Chemical Composition		
Steel base	Guaranteed Minimum	Typical <.017" >.017" BMT BMT		Maximum Percent by Weight	
Longitudinal tensile					
Yield strength, ksi	50	50-60	50-61	Carbon (C)	0.20
Tensile strength, ksi	-	60-73	65-75	Phosphorus (P)	0.10
Elongation in 2 inch, minimum %	12	26-32	23-31	Manganese (Mn)	1.35
Hardness, HRB		56-70	64-75	Sulfur (S)	0.04
Supply Condition	Standard	Optional		Fabricating Performance (1-Limited to 5-Excellent, NR-Not Recommended)	
Coating class	G40, G60	G30, G90		Bending	3
Tension leveling	Leveled			Drawing	NR
Surface conditioning	Not Skin-passed	Skin passed, (paint line feed)		Pressing	NR
				Pittsburgh Lock Seam	NR
				Roll-forming	5
Chemical treatment	Passivated	Not Passivated		Welding *	5
TruZinc Plus	Resin Coated			Painting **	5
Oiling	Not Oiled	Oiled			
Branding	Not Branded				

Optional supply conditions and coating classes may be subject to dimensional restriction.

\* Design must allow for some strength reduction near welds.

\*\* Thickness range suitable for organic coil coating is 0.0157" to 0.0359"

## TruZinc® Steel Grade 50 (Class 4) Grade Data Sheet

### General Description

TruZinc® Steel Grade 50 (Class 4) - hot-dip zinc coated structural steel with a zero spangle surface and guaranteed minimum yield strength of 50 ksi with good ductility.

### Typical Uses

Roll-formed roofing and siding.

Dimensions					
Typical Thickness (Inches)	Maximum .039"	Typical width		Maximum 48.9"	
	Minimum .0157"			Minimum 28"	
Maximum and minimum thicknesses outside the typical range stated above may be supplied on an inquiry basis only.					
Mechanical Properties			Chemical Composition		
Steel base	Guaranteed Minimum	Typical <.017" >.017" BMT BMT		Maximum Percent by Weight	
Longitudinal tensile					
Yield strength, ksi	50	50-60	50-61	Carbon (C)	0.25
Tensile strength, ksi	-	60-73	65-75	Phosphorus (P)	0.20
Elongation in 2 inch, minimum %	12	26-32	23-31	Manganese (Mn)	1.35
Hardness, HRB		56-70	64-75	Sulfur (S)	0.04
Supply Condition	Standard	Optional		Fabricating Performance (1-Limited to 5-Excellent, NR-Not Recommended)	
Coating class	G40, G60	G30, G90		Bending	3
Tension leveling	Leveled			Drawing	NR
Surface conditioning	Not Skin-passed	Skin passed, (paint line feed)		Pressing	NR
				Pittsburgh Lock Seam	NR
Chemical treatment	Passivated	Not Passivated		Roll-forming	5
TruZinc Plus	Resin Coated			Welding *	5
Oiling	Not Oiled	Oiled		Painting **	5
Branding	Not Branded				

*Optional supply conditions and coating classes may be subject to dimensional restriction.*

\* Design must allow for some strength reduction near welds.

\*\* Thickness range suitable for organic coil coating is 0.0157" to 0.0359"



## TruZinc® Steel Grade 57 Grade Data Sheet

### General Description

TruZinc® Steel Grade 57 - hot-dip zinc coated commercial steel with a zero spangle surface and with good ductility. Suitable for bending and moderate forming.

### Typical Uses

Roll-formed roofing, rainwater goods, HVAC and general manufacturing.

Dimensions				
Typical Thickness (Inches)	Maximum .0237" Minimum .0150"	Typical width	Maximum 48.0000" Minimum 40.5500"	
Maximum and minimum thicknesses outside the typical range stated above may be supplied on an inquiry basis only.				
Mechanical Properties			Chemical Composition	
Steel base	Guaranteed Minimum	Typical	Maximum Percent by Weight	
Longitudinal tensile				
Yield strength, ksi	57	57-67	Carbon (C)	0.10-0.20
Tensile strength, ksi	65	68-78	Phosphorus (P)	0.025
Elongation in 2 inch, minimum %	12	20-34	Manganese (Mn)	1.20
Hardness, HRB	-	66-80	Sulfur (S)	0.030
Supply Condition	Standard	Optional	Fabricating Performance (1-Limited to 5-Excellent, NR-Not Recommended)	
Coating class	G40	G30, G60, G90	Bending	2
Tension leveling	Leveled		Drawing	NR
Surface conditioning	Not Skin-passed	Skin passed, (paint line feed)	Pressing	NR
			Pittsburgh Lock Seam	NR
			Roll-forming	3
Chemical treatment	Passivated	Not Passivated	Welding *	4
TruZinc Plus	Resin Coated		Painting **	5
Oiling	Not Oiled	Oiled		
Branding	Not Branded			

*Optional supply conditions and coating classes may be subject to dimensional restriction.*

\* Design must allow for some strength reduction near welds.

\*\* Thickness range suitable for organic coil coating is 0.0140" to 0.0359"

## TruZinc® Steel Grade 80 (Class 1) Grade Data Sheet

### General Description

TruZinc® Steel Grade 80 (Class1) - hot-dip zinc coated structural steel with a zero spangle surface and guaranteed minimum yield strength of 80 ksi with good ductility.

### Typical Uses

Roll-formed roofing and decking.

Dimensions				
Typical Thickness (Inches)	Maximum .0249" Minimum .012"	Typical width	Maximum 48.9" Minimum 28"	
Maximum and minimum thicknesses outside the typical range stated above may be supplied on an inquiry basis only.				
Mechanical Properties			Chemical Composition	
Steel base	Guaranteed Minimum	Typical	Maximum Percent by Weight	
Longitudinal tensile				
Yield strength, ksi	80	91-117	Carbon (C)	0.20
Tensile strength, ksi	82	95-120	Phosphorus (P)	0.04
Elongation in 2 inch, minimum %	-	-	Manganese (Mn)	1.35
Hardness, HRB		85-99	Sulfur (S)	0.04
Supply Condition	Standard	Optional	Fabricating Performance (1-Limited to 5-Excellent, NR-Not Recommended)	
Coating class	G40, G60	G30, G90	Bending	2
Tension leveling	Leveled		Drawing	NR
Surface conditioning	Not Skin-passed	Skin passed,	Pressing	NR
		(paint line feed)	Pittsburgh Lock Seam	NR
Chemical treatment	Passivated	Not Passivated	Roll-forming	4
TruZinc Plus	Resin Coated		Welding *	5
Oiling	Not Oiled	Oiled	Painting **	5
Branding	Not Branded			

*Optional supply conditions and coating classes may be subject to dimensional restriction.*

\* Design must allow for some strength reduction near welds.

\*\* Thickness range suitable for organic coil coating is 0.0140" to 0.0249"



## TruZinc® Steel Grade CS (Type A) Grade Data Sheet

### General Description

TruZinc® Steel Grade CS (Type A) - hot-dip zinc coated commercial steel with a zero spangle surface and with good ductility. Suitable for bending and moderate forming.

### Typical Uses

Roll-formed roofing, rainwater goods, HVAC and general manufacturing.

Dimensions				
Typical Thickness (Inches)	Maximum .039" Minimum .012"	Typical width	Maximum 48.9" Minimum 28"	
Maximum and minimum thicknesses outside the typical range stated above may be supplied on an inquiry basis only.				
Mechanical Properties		Chemical Composition		
Steel base	Guaranteed Minimum	Typical	Maximum Percent by Weight	
Longitudinal tensile				
Yield strength, ksi	-	35-57	Carbon (C)	0.10
Tensile strength, ksi	-	53-65	Phosphorus (P)	0.030
Elongation in 2 inch, minimum %	-	25-40	Manganese (Mn)	0.60
Hardness, HRB	-	50-67	Sulfur (S)	0.035
Supply Condition	Standard	Optional	Fabricating Performance (1-Limited to 5-Excellent, NR-Not Recommended)	
Coating class	G40, G60	G30, G90	Bending	5
Tension leveling	Leveled		Drawing	2
Surface conditioning	Not Skin-passed	Skin passed, (paint line feed)	Pressing	2
			Pittsburgh Lock Seam	5
Chemical treatment	Passivated	Not Passivated	Roll-forming	5
			Welding *	5
TruZinc Plus	Resin Coated		Painting **	5
Oiling	Not Oiled	Oiled		
Branding	Not Branded			

*Optional supply conditions and coating classes may be subject to dimensional restriction.*

\* Design must allow for some strength reduction near welds.

\*\* Thickness range suitable for organic coil coating is 0.0140" to 0.0359"