

Eclipse

Tower & Catwalk Solutions



SLAM DUNK!



Higher Quality. Lower Cost.

Eclipse Tower & Catwalk Solutions is the revolutionary grain handling and equipment support system that's engineered for farm and other light-duty applications.

Designed for the harshest environments and most rigorous operating schedules, Eclipse components are made from the finest galvanized steel. Eclipse towers use a roll-formed "C-Channel" design, and are constructed from 12-gauge heavy-duty galvanized steel. The end result is a comprehensive system that offers more strength, safety and stability than simple angle-iron products at comparable – or in many cases – lower prices.

Eclipse towers can be erected to a maximum height of 82-feet. Conveyor support systems have a clear-span of 40-feet or 80-feet with center supported by bin, and can support a 16-inch, 20,000 bph loop system or small drag conveyor.

Plus the innovative modular design makes Eclipse fast and easy to erect for lower back-end labor costs. Eclipse spends less time on the ground and more time making money, and the wide range of options and configurations allows you to customize an Eclipse system that's perfect for your needs.

If that's not enough, remember that Eclipse is designed and manufactured by Sentinel Building Systems, a leader in the steel building industry and a division of Global Industries ... and nobody knows more about delivering quality and efficiency to the grain industry better than Global.

When you add up the benefits Eclipse provides, the choice becomes easy. Sturdier materials ... superior engineering and design ... modular construction for greater versatility and faster erection ... "Rock Solid" stability for enhanced safety and easy access ... all for the same or lower cost than other available systems.

Slam Dunk!

Eclipse

Tower & Catwalk Solutions

Handrail incorporates a truss design in conjunction with top and intermediate handrails

48" x 52" top platform cannot be used with ladder assembly, while 52" x 72" and 72" x 96" top platforms include ladder access

52" conveyor support includes 26" walkway with handrails

26" x 144" platform extensions available

Walkway surfaces available in 4', 6', 8' and 10' lengths

Conveyor support side members are a single piece 14-gauge galvanized "C-Channel" in lengths from 8' to 40'

Conveyor support can accommodate up to a 16" - 20,000 bph grain loop or small drag conveyor

A manwalk-only option is available in lengths from 8' to 40' in 4' increments

Non-truss manwalks are available in 10' and 12' lengths, with support structure required at splice points

Maximum tower height of 82'

26" wide walkways are constructed of 14-gauge galvanized sheet, and include non-slip treadplate and 4" kickplates

Maximum 40' clear span with spans up to 80' with center supported by bin peak

Eclipse's unique modular design insures fast and easy erection

Eclipse components are securely fastened using 1/2" ASTM A325 galvanized bolts

All Eclipse towers are constructed using heavy-duty 12-gauge galvanized steel

Eclipse is packaged to accept intermediate platforms for all available heights, but platforms can be excluded from packages with towers less than 52' in height

42" x 66" intermediate platform available for use with ladder assemblies

Choose from three base tower heights of 6', 8' and a heavy-duty 18' base for towers heights exceeding 62'

Beefy 2" x 2" x 12-gauge bracing angles stand up to the harshest applications and environments

All platforms are made from 14-gauge galvanized steel and include perforated landings and 4" kickplate

Eclipse's innovative "C-Channel" design was engineered to provide maximum strength, stability and versatility

3/4" welded base plates at all four corners for "Rock Solid" stability

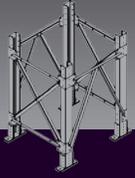
Ladder assemblies are available in lengths from 30' to 82', with flared cage-starter sections included

48" x 52" tower footprint is ideal size for a wide range of agricultural uses.



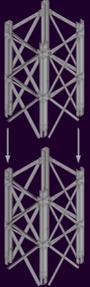
Towers

4-Leg Tower Bases



- 6', 8' and heavy-duty 18' base tower sections available.
- 18' heavy-duty based tower required for tower assemblies exceeding 62'.

Tower Sections



- Available in 2' increments up to 62' in height.
- Available in 4' increments above 62' height.
- Build to a maximum height of 82'.

2-Leg Towers



- 6' or 8' base tower sections available.
- Sections in lengths from 8' to 40' in 4' increments.
- Tower-to-ground or bin mount.
- Maximum 35' un-braced height above bin.
- Bin-mount brackets included and optional cross support is available.

Kicker Assembly



- Attaches to sides of 2-leg tower.
- Spans approximately 20'.
- 8" wide top mounting surface for field fabrication equipment mounting brackets.

Conveyor Supports



- 52" wide in lengths from 8' to 40' in 4' increments.
- Maximum 40' clear span and up to 80' span with center supported by bin peak.
- Includes a trussed handrail design in conjunction with top and intermediate rails.
- Walkway utilizes 14-gauge galvanized steel that is perforated to provide a non-slip surface. Single piece design incorporates a 4" kickplate.
- Perforated walkway surfaces in 4', 6', 8' and 10' lengths.

Manwalks

Trussed



- 26" wide in lengths from 8' to 40' in 4' increments.
- Maximum of 40' free-span.
- Supports up to 300 lb point live load.
- 90 mph wind load and dead load.
- Perforated walkway surfaces in 4', 6', 8' and 10' lengths.

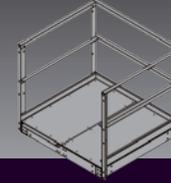
Non-Trussed



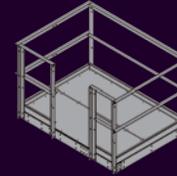
- 26" wide in 10' and 12' lengths. 12' length utilizes 2-piece walkway design.
- Maximum span equal to length of individual manwalk assemblies.
- Uses a 14-gauge perforated walkway surface with 4" kickplate.

Platforms

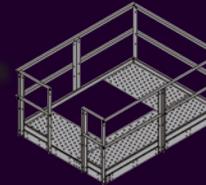
48" x 52" Top Platform



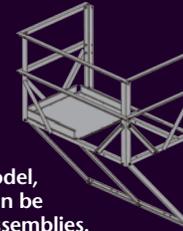
52" x 72" Top Platform



72" x 96" Top Platform



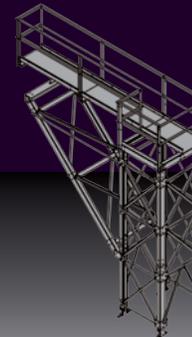
42" x 66" Rest Platform



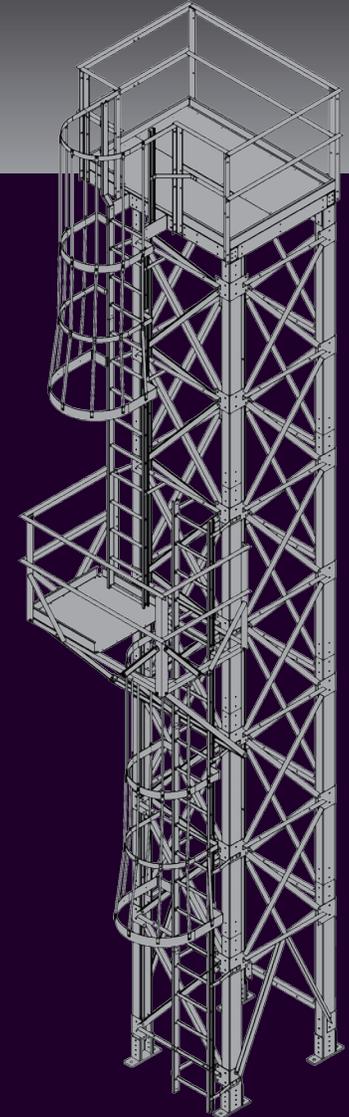
- With the exception of the 48" x 52" model, all top platforms can be used with ladder assemblies.
- All platforms include 14-gauge perforated landings and 4" kickplate.

Platform Extension

- 26" x 144" design.
- Package incorporates a 12' non-trussed manwalk and a single-side of a kicker assembly.



Ladder & Cages



- Available for all tower heights.
- Can be ordered without intermediate platforms on heights up to 52'.
- Intermediate platforms included as required on heights above 52'.

Design Specifications

Building Code:	IBC 2009 and ASCE7-05
Design Standard:	AISI 2007 and AISC 2005
Live Load: 20 psf	Snow Load: 30 psf
Wind Load: 90 mph	Seismic Design Category: B
Walkway Live Load:	25 psf or 300 lb point load
Platform Live Load:	50 psf or 300 lb point load

Conveyor Support

LOOP SYSTEM

Applies to 4-leg towers and 52" conveyor supports

Supports up to 16" – 20,000 bph grain loops

Towers are designed to support end reactions from 40' catwalk span only, for any other condition including tower as intermediate support, layout must be approved by design engineer

DRAG CONVEYOR

	Up to 18" Conveyor	Up to 26" Conveyor	Up to 34" Conveyor
Span	Load	Load	Load
28 ft.	200 lb/ft	200 lb/ft	200 lb/ft
32 ft.	150 lb/ft	150 lb/ft	150 lb/ft
36 ft.	110 lb/ft	110 lb/ft	110 lb/ft
40 ft.	80 lb/ft	80 lb/ft	80 lb/ft
44 ft.	60 lb/ft	60 lb/ft	
48 ft.	40 lb/ft		

Applies to 52" conveyor supports only

Catwalk modeled with point loads at cross members spaced at a maximum of 8-feet – reported as distributed loads above

Catwalks modeled with horizontal and vertical supports at end of span

If supporting conveyor supports above with Eclipse towers, the towers must be checked by design engineer

Material Specifications

TOWERS

Legs	6" x 4" x 12-gauge roll-formed C's	Galvanized
Bracing	Angle 2" x 2" x 12-gauge	Galvanized

CONVEYOR SUPPORT

Main Member	6" x 4" x 14-gauge roll-formed C's	Galvanized
Handrails	Angle 2" x 2" x 12-gauge	Galvanized
Horizontal Bracing	Angle 2" x 2" x 12-gauge	Galvanized

TRUSSED MANWALKS

Main Member	6" x 2-1/2" x 16-gauge roll-formed C's	Galvanized
Handrails	Angle 2" x 2" x 16-gauge	Galvanized
Horizontal Bracing	Angle 2" x 2" x 12-gauge	Galvanized

NON-TRUSSED MANWALKS

Main Member	Uses Manwalk Plank as Structural Member	Galvanized
Handrails	Angle 2" x 2" x 12-gauge	Galvanized

PLATFORM ASSEMBLY

Main Member	6" x 4" x 14-gauge roll-formed C's	Galvanized
Handrails	Angle 2" x 2" x 12-gauge	Galvanized
Rest Platform	14-gauge perforated sheet with 4' kickplate	Galvanized

KICKER ASSEMBLY

Main Member	6" x 4" x 16-gauge roll-formed C's	Galvanized
Bracing	Angle 2" x 2" x 12-gauge	Galvanized

BOLTS

	1/2" ASTM A325	Galvanized
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Sentinel Building Systems is known as the “rock solid” company. And this is no self-proclaimed title, but one given to us over the years by our customers. It’s a term used to describe Sentinel by a number of different people for a number of different reasons, and we thought we’d share some of those reasons with you.

Rock Solid Products

Nobody ever told us they regretted purchasing a Sentinel product, but we’ve heard from lots of folks who wished they had. Sentinel uses only the finest and most durable materials and components available, and all of our product lines are designed to be rugged, functional and – pound-for-pound and dollar-for-dollar – the best value for your money.

Rock Solid Company

Sentinel Building Systems has been an industry leader for nearly 25 years and – like our products – stand the test of time. Sentinel’s success comes from treating customers fairly, delivering quality products for a value price and doing exactly what we say we’re going to do.



Rock Solid Relationships

You don’t realize how important service is until you partner with someone who doesn’t offer it.

Sentinel takes its business – and customers – very seriously. Maybe it’s the small town culture where neighbor helping neighbor is the rule and not the exception, or maybe it’s just pride in doing a job well, but Sentinel takes a personal interest in every product we offer and goes to great lengths to make the entire process smooth and hassle-free from start to finish.

Rock Solid Support

Sentinel products are known for durability and ease of installation, but what truly sets Sentinel apart is commitment to customer support. From Sales Consultants that design maximum functionality at minimum cost to Authorized Dealers and Customer Service Teams that make sure your project goes exactly as planned, nobody stands behind its products or provides ongoing support better than Sentinel ... and isn’t that what you really want from the company you do business with?



You’ll live with your grain handling system a long time. Make sure it’s a choice you won’t regret. Get all the facts first. Contact Sentinel or talk to your authorized Eclipse Dealer and discover why Sentinel and Eclipse are your Rock Solid choices.

Call Today!

800-327-0790

Proudly Sold By:

(Insert Dealer Info Here)



www.sentinelbuildings.com