Eclipse
Tower & Catwalk Solutions
High Quality. Lower Cost.

Eclipse Tower & Catwalk Solutions is the revolutionary grain handling and equipment support system that is 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 GA, 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 up to a maximum height of 82’. Conveyor support systems have a maximum unsupported length of 40’, and can support a 16’, 18,000 BPH (486 TPH) loop system or small drag conveyor.

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, the wide range of options and configurations allow you to customize an Eclipse system that’s perfect for your needs.
Handrail incorporates a truss design in conjunction with top and intermediate handrails.

26” wide walkways are constructed of 14 GA galvanized sheet, and include non-slip treadplate and 4” kickplates.

52” conveyor support includes 26” walkway with handrails.

Conveyor support can accommodate up to a 16’ – 18,000 BPH (486 TPH) grain loop or small drag conveyor.

Conveyor support side members are a single piece of 14 GA galvanized “C-Channel” in 8’, 12’ and 20’ lengths.

Maximum tower height of 82’

Eclipse’s unique modular design insures fast and easy erection.

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.

Sturdy 2” x 2” x ¼” bracing angles stand up to the harshest applications and environments.

¾” welded base plates at all four corners for added stability.

Non-truss manwalks are available in 10’ and 12’ lengths.

26” wide walkways are constructed of 14 GA galvanized sheet, and include non-slip treadplate and 4” kickplates.

A Trussed Manwalk option is available in lengths from 8’ to 100’ in 4’ increments.

Eclipse components are securely fastened using ½” Grade 5 Flange bolt and nuts.

42” x 66” intermediate platform available for use with ladder assemblies.

All platforms are made from 14 GA galvanized steel and include perforated landings and 4” kickplate.

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

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

26” x 144” platform extensions available.

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

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

Innovative “C-Channel” design was engineered to provide maximum strength, stability and versatility.
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 Height
• Available in 2’ increments up to 62’
• Available in 4’ increments above 62’
• Build to a maximum of 82’

2-Leg Towers
• 6’ or 8’ base tower sections available
• Intermediate Tower in 4’, 8’ and 16’ tower sections
• Tower-to-ground or bin mount
• Maximum 35’ unbraced height above bin
• Bin mount brackets and cross support included

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 100’ in 4’ increments
• Maximum unsupported length is 40’
• Includes a trussed handrail design in conjunction with top and intermediate rails
• Walkway utilizes 14 GA galvanized steel that is perforated to provide a non-slip surface. Single piece design incorporates a 4” kickplate
• Non-slip walkway surfaces

Manwalks

Trussed
• 26” wide in lengths from 8’ to 100’ in 4’ increments
• Maximum unsupported length is 40’
• Supports up to 300 lb point live load
• 90 mph wind load and dead load
• Non-Slip walkway surfaces

Non-Trussed
• 26” wide in 10’ and 12’ lengths
• Maximum span equal to length of individual manwalk assemblies
• Uses a 14 GA 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 GA 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” – 18,000 BHP (486 TPH) grain loops | Weight per Foot - 56 lb. per bu. 133 lbs./ft. Vertical Load
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

<table>
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<th>SPAN</th>
<th>Up to 18” Tall Conveyor</th>
<th>Up to 26” Tall Conveyor</th>
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MATERIAL SPECIFICATIONS

TOWERS

Legs | 6” x 4” x 12 GA roll-formed C’s | Galvanized
Bracing | Angle 2” x 2” x ¼” | Galvanized

CONVEYOR SUPPORT

Main Member | 6” x 4” x 14 GA roll-formed C’s | Galvanized
Handrails | Angle 2” x 2” x 1/4” | Galvanized
Horizontal Bracing | Angle 2” x 2” x ¼” | Galvanized

TRUSSED MANWALKS

Main Member | 6” x 2.5” x 16 GA roll-formed C’s | Galvanized
Handrails | Angle 2” x 2” x 16 GA | Galvanized
Horizontal Bracing | Angle 2” x 2” x ¼” | Galvanized

NON-TRUSSED MANWALKS

Main Member | Uses manwalk plank as structural member | Galvanized
Handrails | Angle 2” x 2” x ¼” | Galvanized

PLATFORM ASSEMBLY

Main Member | 6” x 4” x 14 GA roll-formed C’s | Galvanized
Handrails | Angle 2” x 2” x ¼” | Galvanized
Rest Platform | 14 GA perforated sheet with 4’ kickplate | Galvanized

KICKER ASSEMBLY

Main Member | 6” x 4” x 16 GA roll-formed C’s | Galvanized
Bracing | Angle 2” x 2” x ¼” | Galvanized

BOLTS

½” Grade 5 Flange bolt and nut | Galvanized
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