

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.





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

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

Conveyor support side members are a single piece of 14 GA galvanized "C-Channel" in 8', 12' and 20' lengths

52" conveyor support includes 26" walkway with 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

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

26" x 144" platform extensions available

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

Maximum unsupported length is 40'

Maximum tower height of 82'

Eclipse's unique modular design insures fast and easy erection

Eclipse components are securely fastened using 1/2" Grade 5 Flange bolt and nuts

All Eclipse towers are constructed using heavy-duty 12 GA 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

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

Sturdy 2" x 2" x 1/8" bracing angles stand up to the harshest applications and environments

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

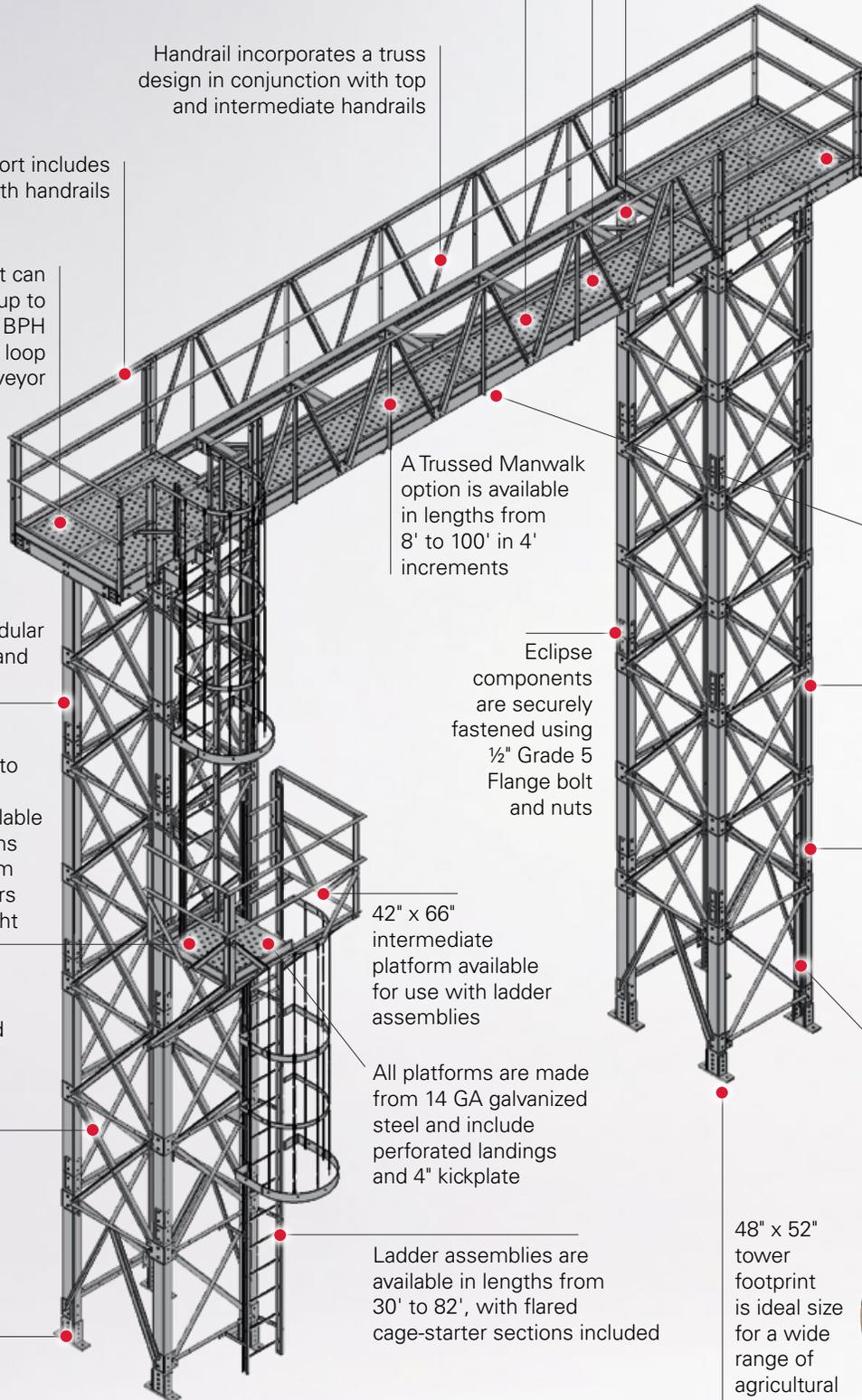
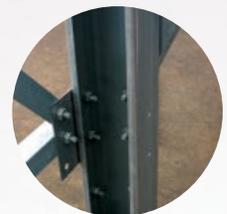
Innovative "C-Channel" design was engineered to provide maximum strength, stability and versatility

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

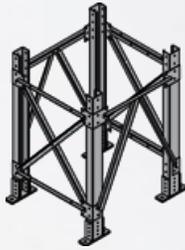
All platforms are made from 14 GA galvanized steel and include perforated landings and 4" kickplate

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

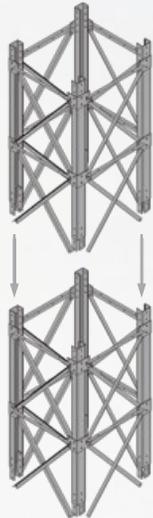


4-Leg Tower Bases

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

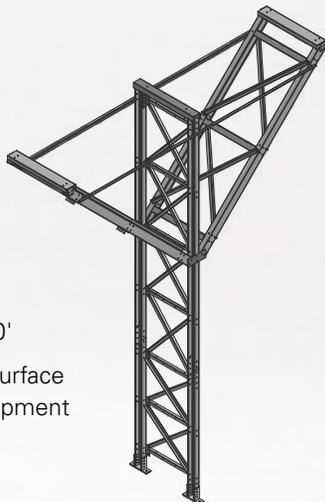
Tower Height

- 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

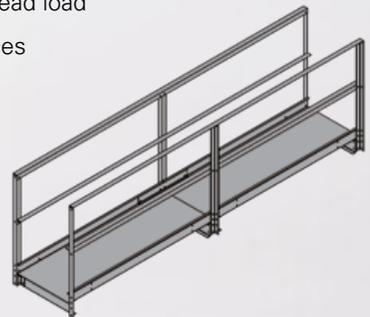
Trussed

- 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



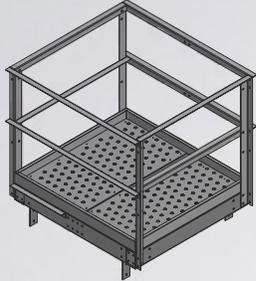
Non-Trussed

- 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

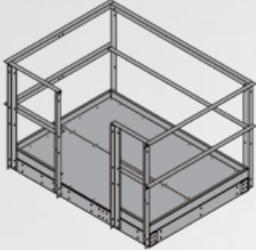


Platforms

48" x 52"
Top Platform



52" x 72"
Top Platform

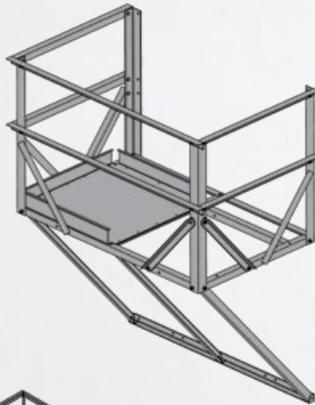


72" x 96"
Top Platform



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



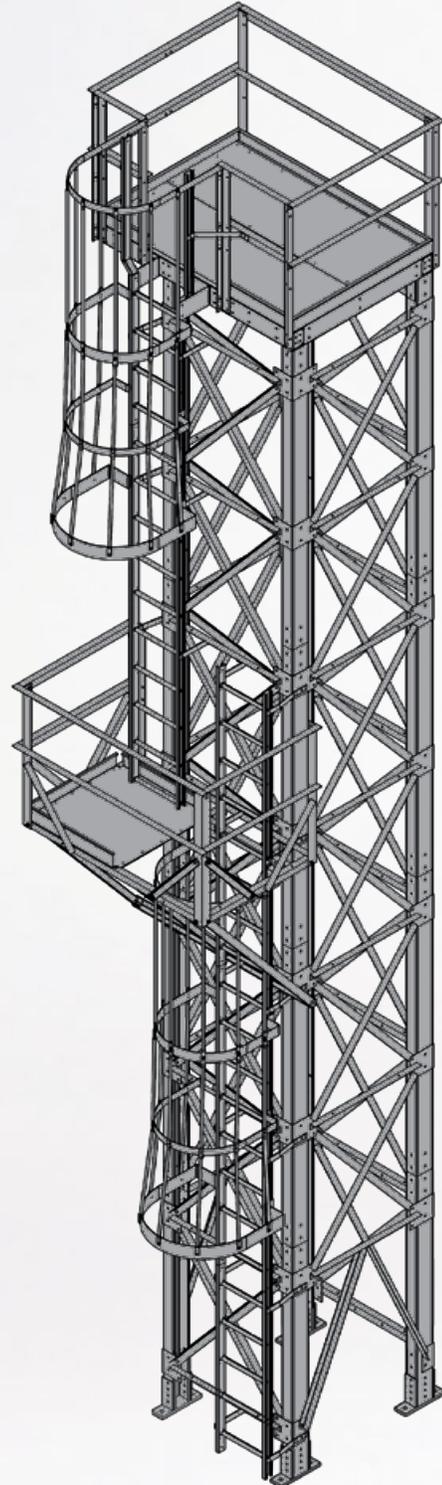
Platform
Extension

- 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

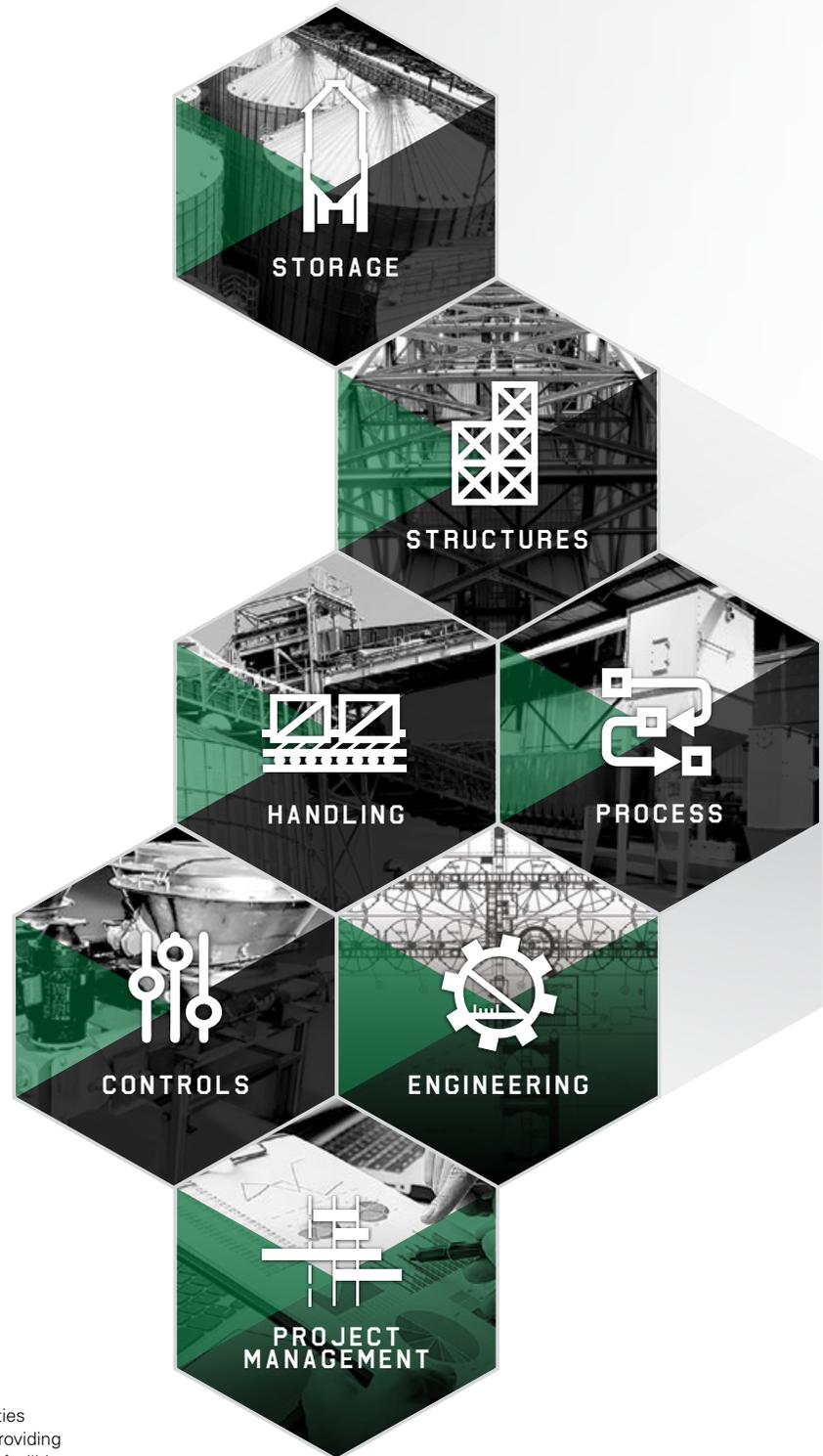
Towers are designed to support end reactions from 40' catwalk span only, for any other condition including tower as intermediate support, layout must be approved by design engineer

DRAG CONVEYOR

	Up to 18" Tall Conveyor	Up to 26" Tall Conveyor	Up to 34" Tall Conveyor
SPAN	LOAD	LOAD	LOAD
28'	200 lb/ft	200 lb/ft	200 lb/ft
32'	150 lb/ft	150 lb/ft	150 lb/ft
36'	110 lb/ft	110 lb/ft	110 lb/ft
40'	80 lb/ft	80 lb/ft	80 lb/ft
44'	60 lb/ft	60 lb/ft	
48'	40 lb/ft		

MATERIAL SPECIFICATIONS

TOWERS	Legs	6" x 4" x 12 GA roll-formed C's	Galvanized
	Bracing	Angle 2" x 2" x 1/8"	Galvanized
CONVEYOR SUPPORT	Main Member	6" x 4" x 14 GA roll-formed C's	Galvanized
	Handrails	Angle 2" x 2" x 1/8"	Galvanized
	Horizontal Bracing	Angle 2" x 2" x 1/8"	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 1/8"	Galvanized
NON-TRUSSED MANWALKS	Main Member	Uses manwalk plank as structural member	Galvanized
	Handrails	Angle 2" x 2" x 1/8"	Galvanized
PLATFORM ASSEMBLY	Main Member	6" x 4" x 14 GA roll-formed C's	Galvanized
	Handrails	Angle 2" x 2" x 1/8"	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 1/8"	Galvanized
BOLTS		1/2" Grade 5 Flange bolt and nut	Galvanized



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AGI is a leading provider of equipment solutions for agriculture bulk commodities including seed, fertilizer, grain, and feed systems with a growing platform in providing equipment and solutions for food processing facilities. AGI has manufacturing facilities in Canada, the United States, the United Kingdom, Brazil, South Africa and Italy and distributes its products globally.

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