Walkway Live Load: 20 psf
Wind Load: 90 mph
Design Standard: Building Code: IBC 2009 and ASCE7-05

Supports up to 4-leg 16” – 20,000 bph supports at end of span
Conveyor supports: the towers must be checked by design engineer
If supporting conveyor supports above with Eclipse

Catwalks modeled with horizontal and vertical grain loops
Spaced at a maximum of 8-feet – reported as point loads at cross members
Applies to 52” conveyor supports only

48 ft. 110 lb/ft
44 ft. 150 lb/ft
40 ft. 200 lb/ft
36 ft. 40 lb/ft
32 ft. 60 lb/ft
28 ft. 80 lb/ft

Rock Solid Products

- A leading product, but with the knowledge that no one can match the rock solid functionality from start to finish.
- Uses Manwalk Plank as structural member
- Designed for today’s hard-working farmers, with tomorrow’s needs in mind.
- It’s the best value for your money.

Rock Solid Relationships

- You’ll live with your grain handling system a long time. Make sure it’s a system you can depend on.
- Call Today! 800-327-0790

Rock Solid Support

- Consultants that design systems to meet your specific needs
- Sales and Customer Service Teams that make sure your project goes off without a hitch
- Service Teams that make sure your project goes off without a hitch
- Rock Solid Company

- Rock Solid Products
- Rock Solid Relationships
- Rock Solid Support

Design Specifications

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<tr>
<th>Material Specifications</th>
<th>LOOPS</th>
<th>GRAIL CONVERTER</th>
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Higher Quality. Lower Cost.

In every sense, Eclipse Solutions is the industry’s premier choice for cost-effective, superior quality, and efficient grain handling. We’re the industry leader for 4-leg tower systems, engineered for farm and other light-duty applications. 

Eclipse’s revolutionary tower systems are constructed from 12-gauge heavy-duty galvanized steel. This material provides increased strength, safety and stability. Our simple engineering, design and configuration 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 a farm building company that understands the unique challenges faced by every farm and grain operation.

Eclipse towers can be erected to a maximum height of 62’. Customers opting for higher elevations can opt for 6-leg options, 8-leg options, or tower configurations exceeding 62’.

Eclipse’s patented design with integrated conveyor support systems is ideal for both on-ground and bin-mounted configurations. With this design, you can add intermediate platforms for all 4-leg tower configurations allowing you to customize an Eclipse system that’s perfect for your needs. 

When you add up the benefits Eclipse provides, the higher quality, lower cost is clear.

**4-Leg Tower Bases**

- **Kicker Assembly**
  - **26” x 144” design.**
  - **Available for all tower heights.**
- **Non-Trussed**
  - **Maximum 40’ clear span with structure required at splice points.**
  - **Maximum 62’ in height.**
  - **48” x 52”  Top Platform**
  - **52” x 72” Top Platform**
  - **72” x 96” Top Platform**
- **Trussed**
  - **Maximum of 40’ free-span.**
  - **4’, 6’, 8’ and 10’ lengths.**
  - **Per interim platform kick plate, 4” kickplate.**
  - **Forated walkway surfaces in 8’ to 40’ in 4’ increments.**

**Platform Extensions**

- **26” x 14” extensions**
- **26” x 12” extensions**
- **26” x 10” extensions**

**Conveyor Supports**

- **Non-truss conveyor support systems**
  - **Maximum 40’ clear span with structure required at splice points.**
  - **Maximum 62’ in height.**
  - **4’, 6’, 8’ and 10’ lengths.**
  - **Per interim platform kick plate, 4” kickplate.**

**Ladder & Cages**

- **Slam Dunk!**
  - **2.5” x 2.5” aluminum rail.**
  - **26” x 14” extensions.**
  - **4” cap and 4” kick plate.**
  - **14-gauge galvanized sheet, and include 20’ of 2-leg tower.**
  - **2-Leg Towers**
  - **18’ heavy-duty based tower required.**
  - **Kicker Assembly**
    - **Non-Trussed**
      - **Maximum 40’ free-span.**
      - **4’, 6’, 8’ and 10’ lengths.**
      - **Per interim platform kick plate, 4” kickplate.**
      - **Forated walkway surfaces in 8’ to 40’ in 4’ increments.**
    - **Trussed**
      - **Maximum of 40’ free-span.**
      - **4’, 6’, 8’ and 10’ lengths.**
      - **Per interim platform kick plate, 4” kickplate.**
      - **Forated walkway surfaces in 8’ to 40’ in 4’ increments.**

**Towers**

- **4-Leg Tower Bases**
  - **Kicker Assembly**
    - **Non-Trussed**
      - **Maximum 40’ free-span.**
      - **4’, 6’, 8’ and 10’ lengths.**
      - **Per interim platform kick plate, 4” kickplate.**
      - **Forated walkway surfaces in 8’ to 40’ in 4’ increments.**
  - **Trussed**
    - **Maximum of 40’ free-span.**
    - **4’, 6’, 8’ and 10’ lengths.**
    - **Per interim platform kick plate, 4” kickplate.**
    - **Forated walkway surfaces in 8’ to 40’ in 4’ increments.**

**Platforms**

- **3/4” Welded Base Plates**
  - **4’ to 10’ lengths**
  - **3/4” welded base plates**
  - **26” walkway with handrails**
  - **14-gauge galvanized sheet, and include 20’ of 2-leg tower.**
  - **2-Leg Towers**
    - **18’ heavy-duty based tower required.**
    - **Kicker Assembly**
      - **Non-Trussed**
        - **Maximum 40’ free-span.**
        - **4’, 6’, 8’ and 10’ lengths.**
        - **Per interim platform kick plate, 4” kickplate.**
        - **Forated walkway surfaces in 8’ to 40’ in 4’ increments.**
      - **Trussed**
        - **Maximum of 40’ free-span.**
        - **4’, 6’, 8’ and 10’ lengths.**
        - **Per interim platform kick plate, 4” kickplate.**
        - **Forated walkway surfaces in 8’ to 40’ in 4’ increments.**

**Conveyor Supports**

- **Non-truss conveyor support systems**
  - **Maximum 40’ clear span with structure required at splice points.**
  - **Maximum 62’ in height.**
  - **4’, 6’, 8’ and 10’ lengths.**
  - **Per interim platform kick plate, 4” kickplate.**
  - **Forated walkway surfaces in 8’ to 40’ in 4’ increments.**

**Ladder & Cages**

- **Slam Dunk!**
  - **2.5” x 2.5” aluminum rail.**
  - **26” x 14” extensions.**
  - **4” cap and 4” kick plate.**
  - **14-gauge galvanized sheet, and include 20’ of 2-leg tower.**
  - **2-Leg Towers**
    - **18’ heavy-duty based tower required.**
    - **Kicker Assembly**
      - **Non-Trussed**
        - **Maximum 40’ free-span.**
        - **4’, 6’, 8’ and 10’ lengths.**
        - **Per interim platform kick plate, 4” kickplate.**
        - **Forated walkway surfaces in 8’ to 40’ in 4’ increments.**
      - **Trussed**
        - **Maximum of 40’ free-span.**
        - **4’, 6’, 8’ and 10’ lengths.**
        - **Per interim platform kick plate, 4” kickplate.**
        - **Forated walkway surfaces in 8’ to 40’ in 4’ increments.**

**Towers**

- **4-Leg Tower Bases**
  - **Kicker Assembly**
    - **Non-Trussed**
      - **Maximum 40’ free-span.**
      - **4’, 6’, 8’ and 10’ lengths.**
      - **Per interim platform kick plate, 4” kickplate.**
      - **Forated walkway surfaces in 8’ to 40’ in 4’ increments.**
    - **Trussed**
      - **Maximum of 40’ free-span.**
      - **4’, 6’, 8’ and 10’ lengths.**
      - **Per interim platform kick plate, 4” kickplate.**
      - **Forated walkway surfaces in 8’ to 40’ in 4’ increments.**

**Platforms**

- **3/4” Welded Base Plates**
  - **4’ to 10’ lengths**
  - **3/4” welded base plates**
  - **26” walkway with handrails**
  - **14-gauge galvanized sheet, and include 20’ of 2-leg tower.**
  - **2-Leg Towers**
    - **18’ heavy-duty based tower required.**
    - **Kicker Assembly**
      - **Non-Trussed**
        - **Maximum 40’ free-span.**
        - **4’, 6’, 8’ and 10’ lengths.**
        - **Per interim platform kick plate, 4” kickplate.**
        - **Forated walkway surfaces in 8’ to 40’ in 4’ increments.**
      - **Trussed**
        - **Maximum of 40’ free-span.**
        - **4’, 6’, 8’ and 10’ lengths.**
        - **Per interim platform kick plate, 4” kickplate.**
        - **Forated walkway surfaces in 8’ to 40’ in 4’ increments.**
Higher Quality. Lower Cost.

In every corner of Canada, solutions are being found to increase productivity, reduce costs and improve operating schedules. Eclipse components are designed and constructed to provide industry-leading standards in safety, strength, durability and ease of installation. Eclipse systems are manufactured in 12-gauge galvanized steel, a material that stands up to the harshest environments and conditions, allowing you to customise an Eclipse system that’s perfect for your needs.

Eclipse Towers can be raised to a maximum height of 82 feet. Conventional angular structures have protruded 40 feet above 30 feet while, with proper bracing and tie-in, up to 40 feet above 8 feet. The unique Eclipse design incorporates a trussed handrail and incorporates the C-Channel design in conjunction with top perforated landings. This unique design insures fast and maximum strength, stability and safety for enhanced safety and easy access … all for greater versatility and faster erection … “Rock Solid” better than Global.

Eclipse is packaged to accept the same or lower cost than other available systems. It’s delivered to the job site in 4, 6, 8, and 10-foot lengths. It’s available as a single unit or as a two-piece section for tower assemblies exceeding 62 feet. Each section includes a 4” kickplate. All platforms are made of 14-gauge galvanized steel and incorporate the “C-Channel” design in conjunction with top perforated landings. All platforms include non-slip treadplate, 42” x 66” intermediate platforms, and 8” wide top landings and 4” kickplate.

Eclipse’s innovative “C-Channel” design incorporates a trussed handrail, 12-gauge bracing for maximum stability, safety and durability. This unique design insures fast and maximum strength, stability and safety for enhanced safety and easy access … all for greater versatility and faster erection … “Rock Solid” better than Global.

Engineered for farm and other light-duty applications, Eclipse Tower & Catwalk Solutions is the revolutionary grain handling and equipment support system that’s higher quality. Lower cost. Towers

• Construction from 12-gauge heavy-duty galvanized steel.
• The end result is a comprehensive system that offers more strength, safety and stability than simple angle-
Higher Quality. Lower Cost.

In North River, St. Catharines, Ontario, is the internationally acclaimed grain elevator manufacturer, Global Industries. Their latest and finest line of grain handling equipment, the Eclipse Series, is designed to be the best value on the market. The result is a comprehensive system that offers the same or lower cost than other available systems. Ultimate quality, engineering and design ... modular construction for maximum strength, stability for enhanced safety and easy access ... all for higher quality, lower cost.
Platform Live Load:  
Walkway Live Load:  
Wind Load: 90 mph
Live Load: 20 psf

Design Specifications

Seismic Design Category:
IBC 2009 and ASCE7-05

Building Code:
AISI 2007 and AISC 2005

Material Specifications

Yield:
4' kickplate
½" ASTM A325

Handrails:
Angle 2"x2"x12-gauge
Galvanized

Main Member:
Uses Manwalk Plank as Structural Member

Handrails:
Angle 2"x2"x12-gauge
Galvanized

Horizontal Bracing:
Angle 2"x2"x12-gauge
Galvanized

TRUSSED MANWALKS

Uses Manwalk Plank as Structural Member

Main Member:
Uses Manwalk Plank as Structural Member

Handrails:
Angle 2"x2"x12-gauge
Galvanized

Horizontal Bracing:
Angle 2"x2"x12-gauge
Galvanized

NON-TRUSSED MANWALKS

Uses Manwalk Plank as Structural Member

Main Member:
Uses Manwalk Plank as Structural Member

Handrails:
Angle 2"x2"x12-gauge
Galvanized

Horizontal Bracing:
Angle 2"x2"x12-gauge
Galvanized

X: 2-1/2"x16-gauge roll-formed C's
Galvanized

Rock Solid Products

A Sentinel product, built to last. Our fiberglass or steel structures are designed to outperform the competition. They consist of only the finest materials and are designed to withstand the most severe conditions. That's why Sentinel is the 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 grain system partners.

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SLAM DUNK!
**Platform Live Load:**
- Wind Load: 90 mph
- Live Load: 20 psf

**Design Standard:**
- Building Code: AISI 2007 and AISC 2005
- Seismic Design Category: IBC 2009 and ASCE7-05

**Conveyor Support:**
- Supports up to conveyor supports towers and 52” OOP S SYSTEM
- Applies to 4-leg conveyor supports only
- Design engineer be approved by
- Supports layout must
- Consider condition including
- Catwalk span only, reactions from 40’
- Towers are designed grain loops 48 ft.
- 44 ft.
- 40 ft.
- 36 ft.
- 28 ft.

**Material Specifications:**
- **Handrails:**
  - Main Member: Angle 2” x 2” x 14-gauge
  - Kicker: Angle 2” x 2” x 12-gauge
  - Horizontal Bracing: Angle 2” x 2” x 12-gauge
- **BOLTS:**
  - Forged socket head cap screws
  - Made from 8740 steel or equivalent
  - Zinc coated

**Non-Strussed Manwalks:**
- Handrails: Angle 2”x2” x 16-gauge roll-formed C’s

**Trussed Manwalks:**
- Handrails: Angle 2”x2” x 14-gauge roll-formed C’s
- Handrails: Angle 2”x2” x 12-gauge roll-formed C’s

**General Notes:**
- Uses Manwalk Plank as Structural Member
- Galvanized for durability
- 60 lb/ft load rating

**Design Engineer Notes:**
- If supporting conveyor supports above with Eclipse Catwalks modeled with horizontal and vertical distributed loads above spaced at a maximum of 8-feet – reported as Catwalk modeled with point loads at cross members

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**Sentinel Building Systems reserves the right to alter product specifications or available components without notice.**