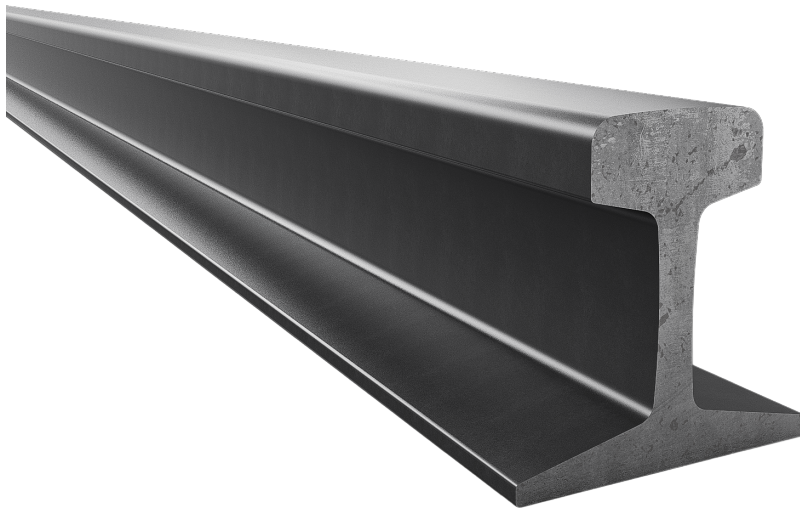


REPLACEMENT & AFTERMARKET

ASCE 60 RAILROAD RAILS



Collaborate / Create / Convey

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ASCE 60 RAILROAD RAILS



Asce 60 Railroad Rails

Extreme heavy-duty roller chain conveyors place sustained tonnage directly on the track that supports the belt, and lighter guide sections cannot carry that loading over time. Angle iron, channel, and plastic rails deform, gall, and drift out of alignment under continuous foot loads, letting the chain assembly bind and wear at every contact point. Each track failure of that kind pulls the conveyor offline for repair and accelerates damage to rollers, chains, and frame members downstream.

The ASCE 60 railroad rail resolves this as the medium-duty section within the ASCE rail range, supporting the belt on extreme heavy-duty roller chain conveyors at foot loads up to approximately 7,500 lb. Rolled from carbon steel in an I profile at 60 lb/yd, the rail distributes weight across its vertical web and horizontal flanges while the hardened head presents a low friction running surface where belts and rollers make contact. Rails ship in 20, 30, 33, and 40 ft standard lengths with pre-drilled ends, purpose-made splice bars, and matched rail bolts, so sections join into a continuous track precisely aligned to the conveyor they serve.

APPLICATIONS



Recycling

Recycling lines feed dense, irregular material across roller chain conveyors that take continuous loading and point impacts throughout every shift. ASCE 60 rails carry the belt path through these zones at foot loads up to approximately 7,500 lb, holding chain tracking stable where mixed material concentrates force.



Waste Management

Waste processing conveyors run near capacity with abrasive, unsorted streams that punish contact surfaces. The hardened rail head supports the roller chain belt while resisting the concentrated wear these streams produce.



Manufacturing

Production conveyors move palletized and unit loads that demand consistent chain alignment across long runs. ASCE 60 rails guide the roller chain within a controlled tolerance to keep material flow uninterrupted.



Mines

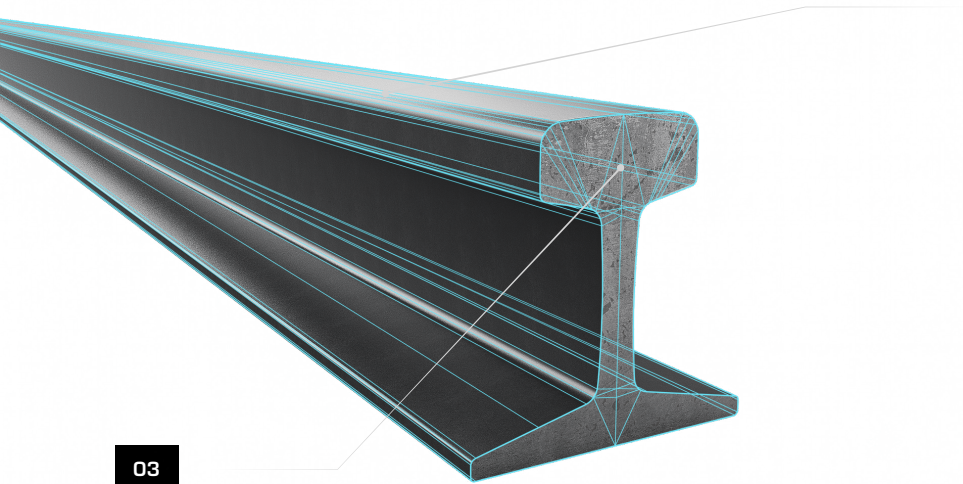
Mining conveyors handle extreme pounds per foot loading in environments that degrade lighter track sections. The 60 lb/yd section withstands this loading while providing stable tracking in harsh operating conditions.



Aggregates

Aggregate operations subject conveyor structures to heavy, continuous throughput of stone, sand, and gravel. The I profile section carries these loads without deformation across the vertical web and flanges.

KEY FEATURES



01

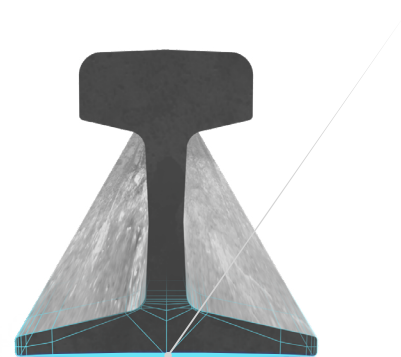
I-Profile Rail Section:

Distributes weight across the vertical web and horizontal flanges, preventing warping even under extreme pressure at the belt support line.

02

Wide Base Flange:

Provides a 4-1/4 in mounting footprint that welds to varied conveyor frame designs without custom brackets.



06

Carbon Steel Construction:

Rolled from high carbon steel to endure years of continuous heavy loads in the most demanding industrial environments.



03

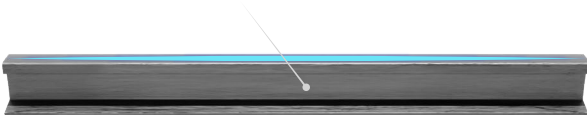
Hardened Head Running Surface:

Presents a low friction, wear resistant contact surface that minimizes roller wear and enables consistent, smooth belt movement.

04

60 lb/yd ASCE Classification:

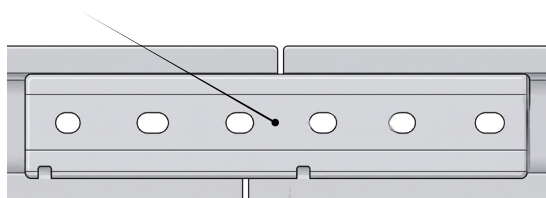
Designates the rail weight per yard under the American Society of Civil Engineers standard, correlating directly to a foot load capacity of approximately 7,500 lb.

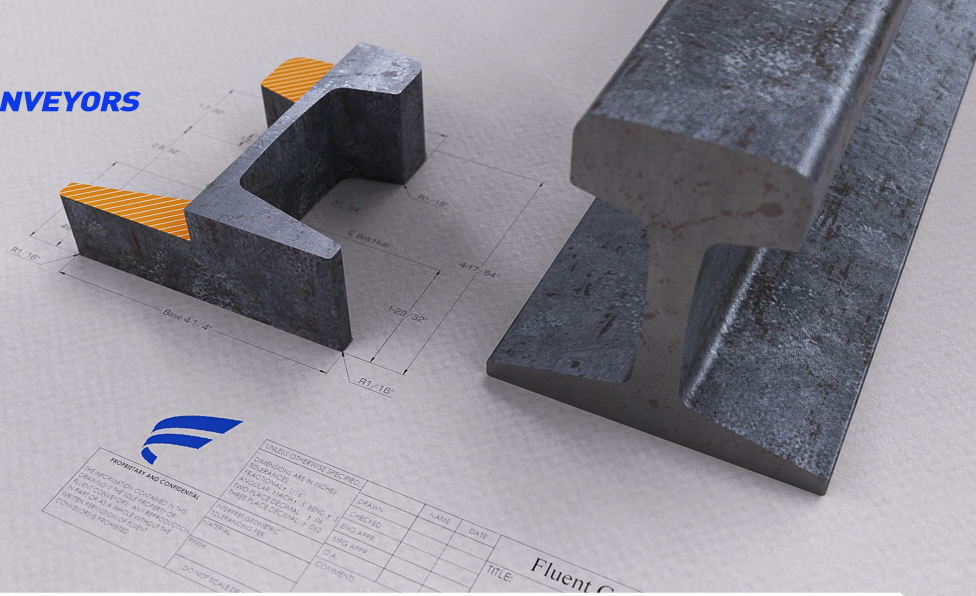


05

Splice Bar Joining System:

Connects rail sections through 20 in splice bars and 3/4 in x 4 in rail bolts seated in the standard 2-1/2 in x 5 in drilling pattern with 15/16 in diameter holes.





ASCE 60 RAILROAD RAILS

ROADSSPECIFICATIONS

Parameter	Specification
Weight	60 lb/yd
Height	4-1/4 in
Base width	4-1/4 in
Head width	2-3/8 in
Web thickness	31/64 in (approx. 0.48 in)
Section area	5.93 in²
Section modulus (head)	6.62 in³
Section modulus (base)	2.5 in⁴
Moment of inertia	14.56 in⁴
Material	Carbon steel
Rail type code	60 AS
Standard length	20, 30, 33, 40 ft
Item weight (33 ft)	660 lb

Joining and Load

Parameter	Specification
Standard drilling	2-1/2 in x 5 in w/ 15/16 in dia. holes
Splice bar length	20 in
Splice bar weight	13 lbs/pair (16 lbs/pair with hardware)
Rail bolt	3/4 in x 4 in
Approximate foot load rating	7,500 lb

Note: Foot load rating is approximate. Final capacity depends on conveyor setup and rail spacing; engineering review is required for load calculations.

THE ENGINEERING ADVANTAGE

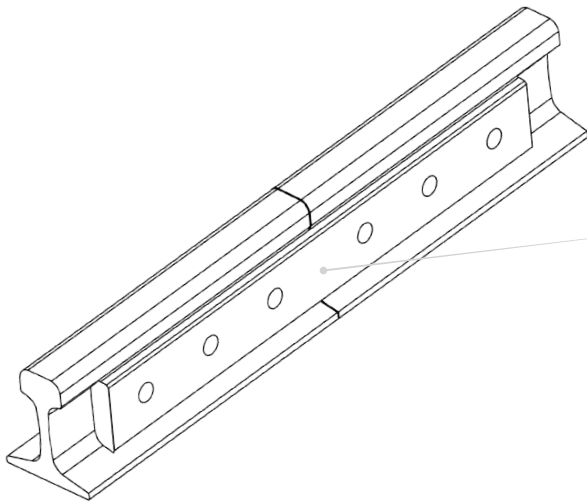
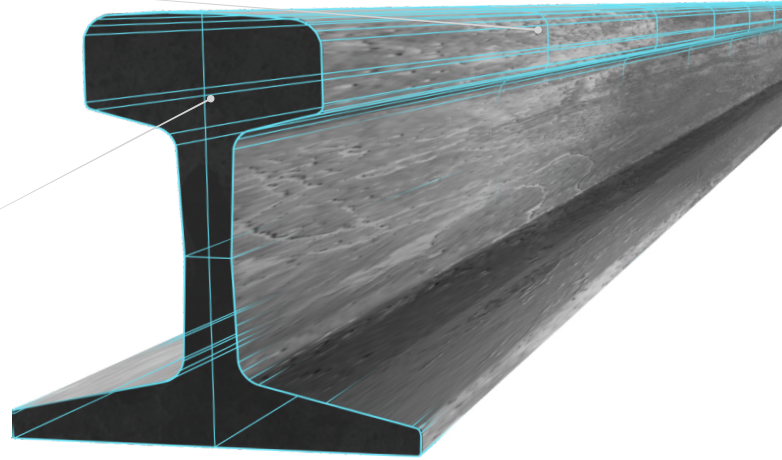
This section outlines the installation and joining methodology behind ASCE 60 railroad rails, covering alignment tolerance, mounting method, and section joining to ensure accurate chain tracking and full service life from the track system.

Rail Alignment Tolerance:

Installed to a tolerance of $\pm 1/16$ in to maintain roller chain tracking, prevent binding, and facilitate chain assembly movement across the conveyor.

Hardened Running Surface Rolling:

Forms a low friction, work-hardened head during rolling that requires only debris removal and condition-based lubrication as routine track maintenance.

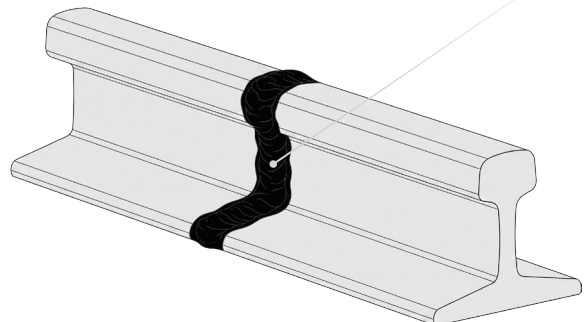
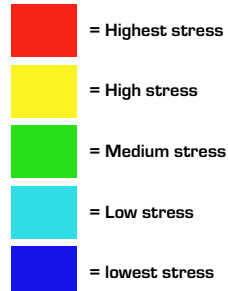
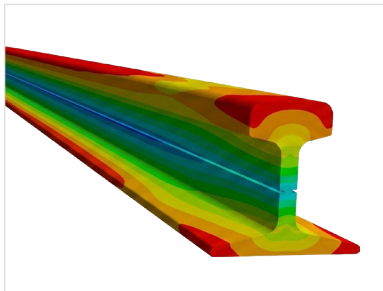


Splice Bar and Butt-Weld Joining:

Extends common rail lengths through purpose-made splice bars or butt-welds, with transition plates applied where rails meet drives or tail sections to preserve chain alignment across structural surfaces.

Welded Rail Mounting:

Joined to the conveyor frame by welding, which produces stronger connections than Grade 8 nut and bolt assemblies under repeated heavy loads.



CONTACT INFORMATION

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