

*North America's leader in steel ties and turnout sets*



 **NARSTCO**

THE PREFERRED STANDARD

# NARSTCO steel ties - the most cost-effective

**NARSTCO** manufactures steel ties and turnout sets for Class I's, short lines and industrial rail customers across North America.

NARSTCO steel railroad ties and turnout sets operate efficiently under the most adverse conditions. Steel ties are installed with less cost, labor and material.

With a proven track record approaching two decades of service across North America, high-quality NARSTCO steel ties and turnout sets deliver an outstanding return on investment for mainline, siding and yard applications of all types.

- Safer, easier and faster to install than alternatives
- Can be interspersed with wood ties to strengthen track structure
- Design allows for reduced ballast section ... up to 40 percent savings vs. wood!
- Extended service life and minimal maintenance requirements compared to alternatives
- Manufactured from recycled steel and 100 percent recyclable

NARSTCO steel ties and turnouts – the innovative solution to your toughest problems to put you on the right track!



## Why steel ties?

**Versatile, durable, green and cost efficient, NARSTCO** steel railroad ties and turnout sets offer exceptional financial and operational benefits for today's rail industry.

### GREEN

NARSTCO steel ties are manufactured from recycled steel and are recyclable. Steel ties are a green product that helps customers reduce the use of creosote.

### VERSATILE

NARSTCO steel ties can be used in a variety of applications and can be customized to meet customers' needs.

### LESS EXPENSIVE

Compared to wood ties, steel ties are less expensive to handle and transport, last longer and require less ballast, which reduces overall costs.

### EXTENDED SERVICE LIFE\*

Steel ties can have a service life of 50+ years and reduce track maintenance requirements relative to wood ties.

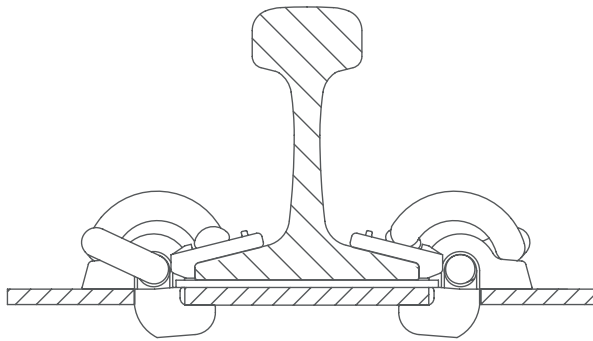
### BUILD FAST AND SAFE

NARSTCO steel ties are often safer, easier and faster to install than wood ties. Less ties and ballast requirements for steel tie track projects can result in considerable upfront savings and faster track construction.

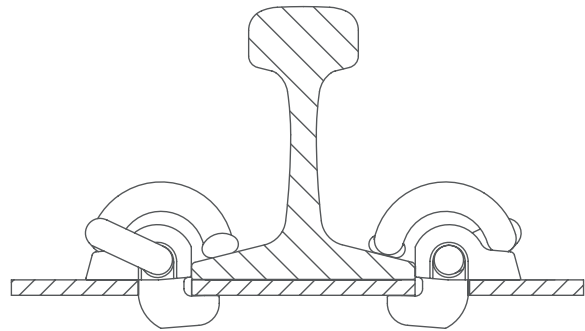
NARSTCO's steel tie fastening system provides a consistent hold of gauge.

# Steel Tie Application Guidelines

Steel Tie Information			
Steel Tie Applications			
Tie	MGTM	Speed MPH	Application
M8	<3MGTM Class I	Freight 10mph Passenger 15	Light branch line, flat storage yard tracks, industrial yards and concrete encasement
M10	3 - 10 MGTM Class 2	Freight 25mph Passenger 30	Mainline, yard tracks, sidings, passing tracks, interspersed with wood ties, industrial tracks and concrete encasement
H10	10 - 25 MGTM Class 3	Freight 40mph Passenger 60mph	Mainline, yard leads, turnout tie sets, grade crossings and tunnels
H12	>25 MGTM Class 4 & 5	Freight 80mph Passenger 90mph	Mainline, tunnels, ballast deck bridges and premium turnouts



**Typical Insulated Rail Assembly**



**Typical Uninsulated Rail Assembly**



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