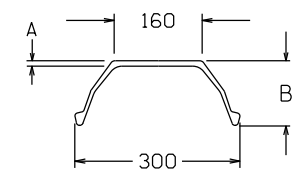


NARSTCO  
 TIE CODE  
 MM-YY USA

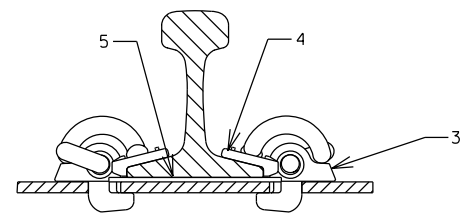
Stamp Detail

Section Properties

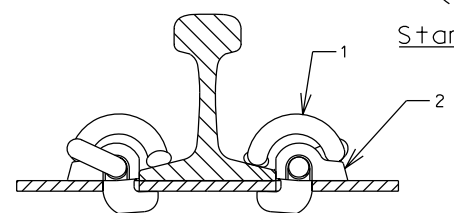


| Section:   | H10      |
|--|----------|
| Dimension 'A' mm                                       | 10       |
| Dimension 'B' mm                                       | 118      |
| Weight of tie - kg / lb                                | 81.8/180 |
| Weight of bar - kg/m                                   | 30.8     |
| Yield strength - MPa (min)                             | 345      |
| Section moduli - Z Top*10 <sup>6</sup> mm <sup>3</sup> | 153      |
| - Z Bot*10 <sup>6</sup> mm <sup>3</sup>                | 79.7     |

| No. | 'e' TYPE ASSEMBLY COMPONENTS         | PART No. |
|-----|--------------------------------------|----------|
| 1   | 'e' TYPE RAIL CLIP                   | 'e' CLIP |
| 2   | NARSTCO CAST HOOK-IN SHOULDER (10mm) | 4020     |
| 3   | NARSTCO CAST HOOK-IN SHOULDER (10mm) | 4010     |
| 4   | INSULATOR                            |          |
| 5   | RAIL PAD                             |          |



Typical Insulated Rail Assembly



Typical Uninsulated Rail Assembly

NOTE:

\* Rail seat area canted to specification i.e. 1:20, 1:30, 1:40

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| 05   | 4-15-16 | Section properties updated  | EC16-21 |
| 04   | 8-15-14 | Rail gage tolerance updated | EC14-11 |
| 03   | 4-17-13 | 'e'clip part number change  | EC13-05 |
| REV.   | DATE    | DESCRIPTION                 | EC#     |

**NARSTCO**

300 WARD RD., MIDLOTHIAN, TEXAS USA - PHONE: 972-775-5560

|        |          |               |          |  |  |  |               |  |       |  |  |  |
|--------|----------|---------------|----------|--|--|--|---------------|--|-------|--|--|--|
| CLIENT |          |               | STANDARD |  | DWG. NO.   |  | 1068          |  | REV.  |  | 05                                     |  |
| DRAWN  | APPROVED | DATE          | TITLE    |  | FOR INSULATED AND UNINSULATED APPLICATIONS WITH 'e' CLIP FASTENING SYSTEM AND 190mm DEEP SPADE |  | H10 STEEL TIE |  | FILE  |  | S1/V8 DRAWINGS/<br>TIES/H-TIES/<br>H10 |  |
| SS     | SK       | JULY 30, 2010 |          |  |  |  |               |  | SCALE |  | NONE                                   |  |