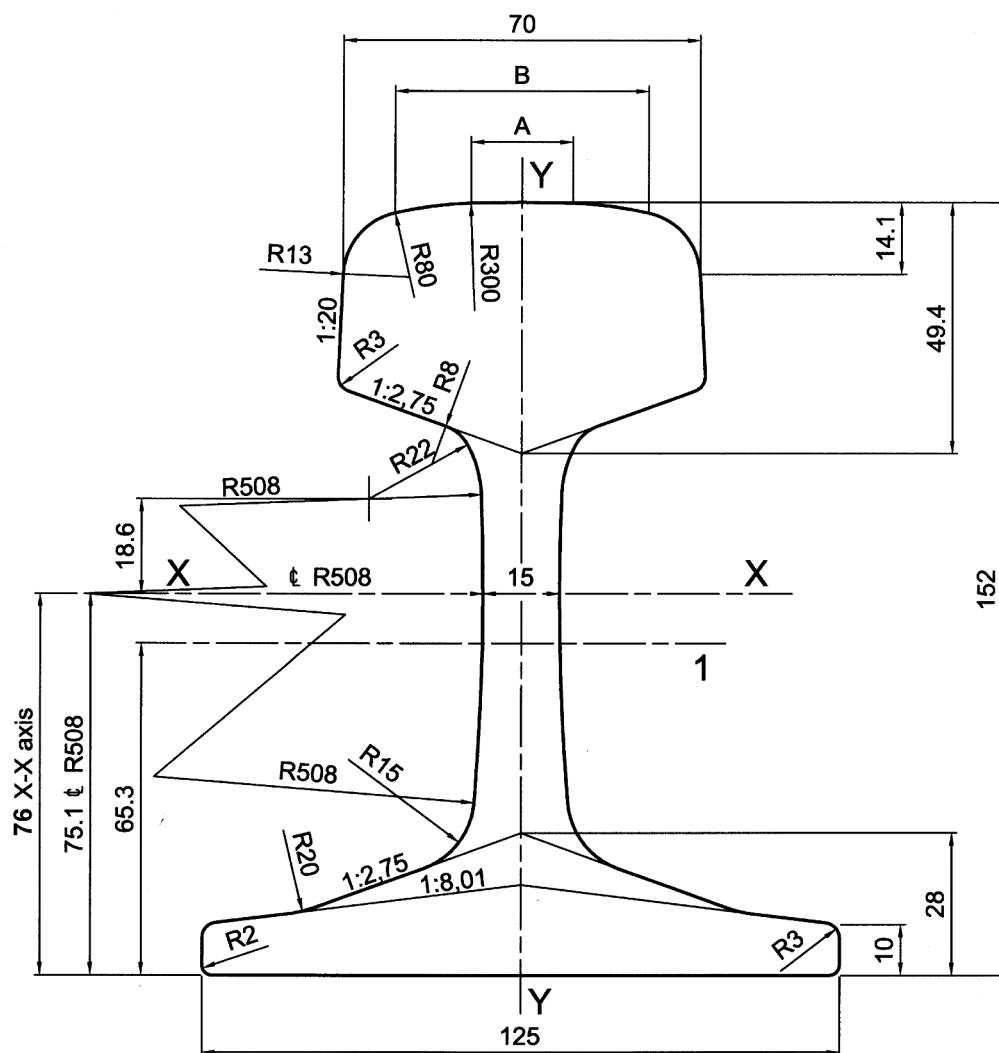


Dimensions in millimetres



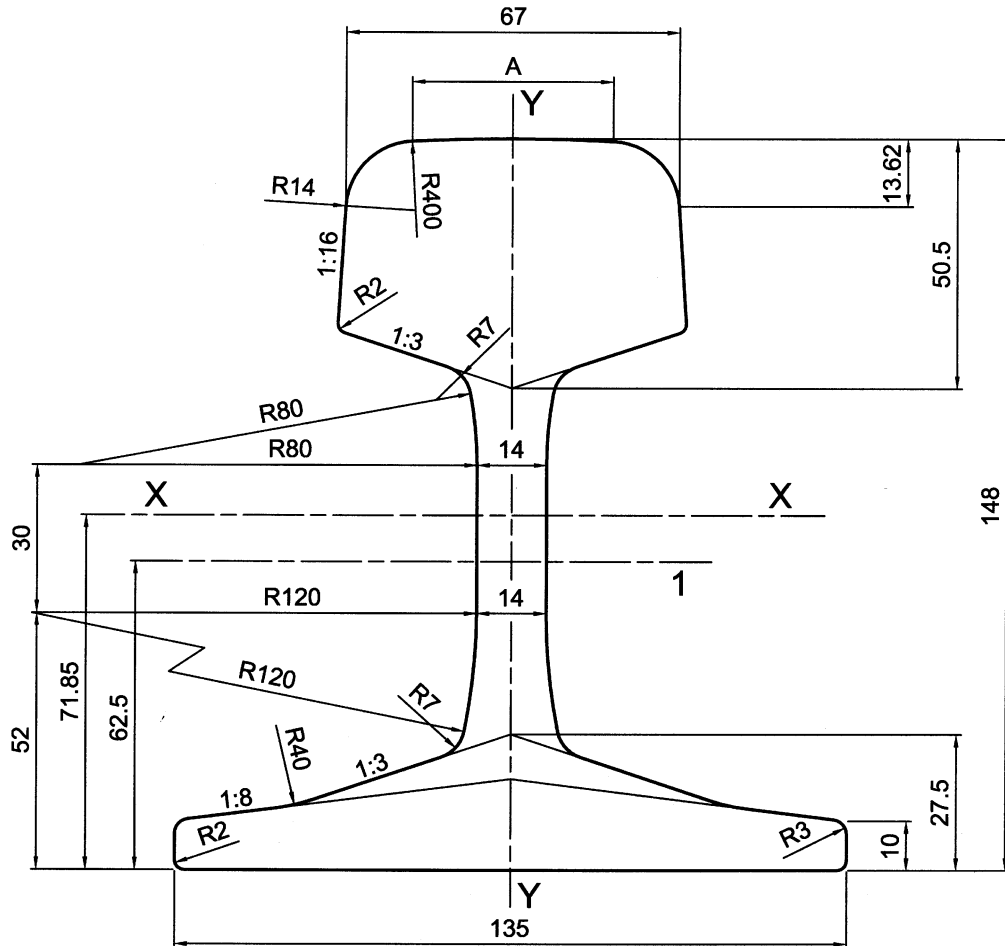
### Key

1 centre line of branding

|                            |                 |                 |
|----------------------------|-----------------|-----------------|
| cross-sectional area       | : 63,91         | cm <sup>2</sup> |
| mass per metre             | : 50,17         | kg/m            |
| moment of inertia x-x axis | : 1 931         | cm <sup>4</sup> |
| section modulus - Head     | : 251,4         | cm <sup>3</sup> |
| section modulus - Base     | : 256,8         | cm <sup>3</sup> |
| moment of inertia y-y axis | : 314,7         | cm <sup>4</sup> |
| section modulus y-y axis   | : 50,4          | cm <sup>3</sup> |
| indicative dimensions      | : A = 20,025 mm |                 |
|                            | : B = 49,727 mm |                 |

Figure A.11 — Rail profile 50E4

Dimensions in millimetres



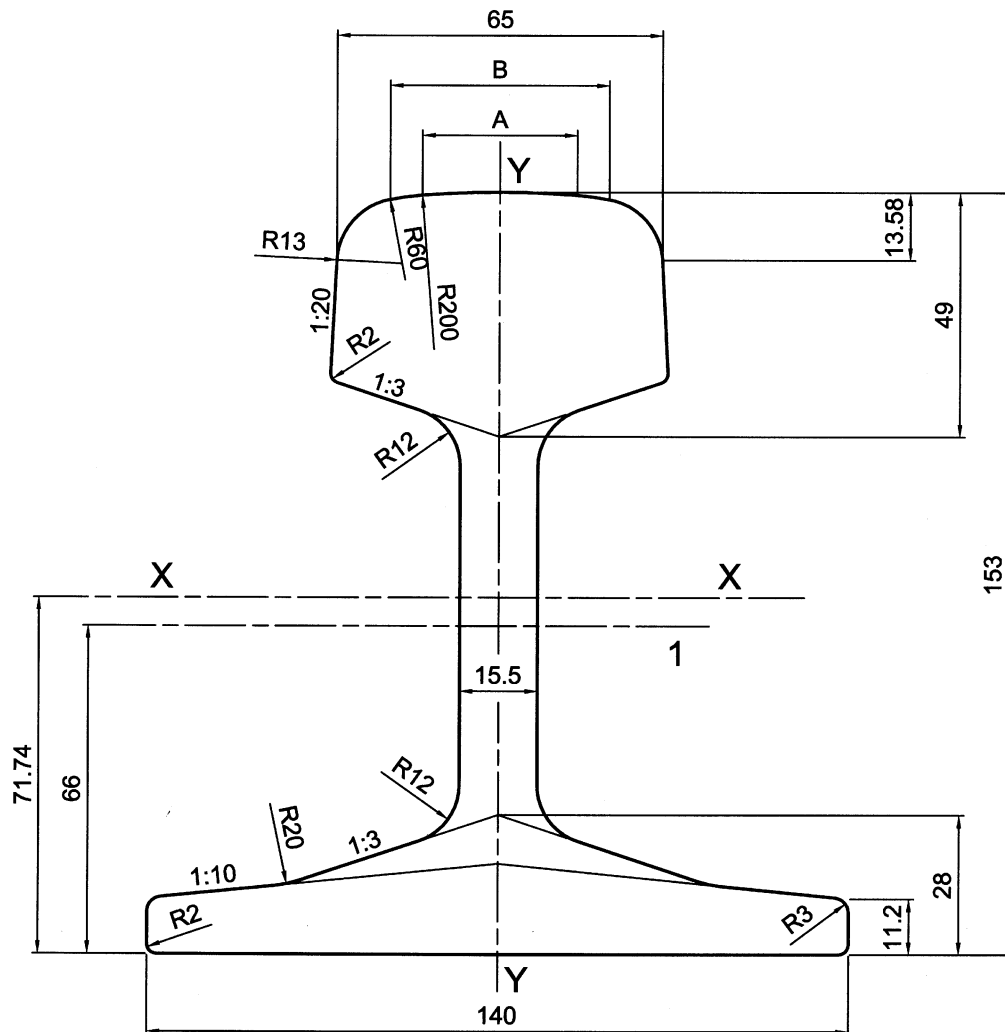
### Key

1 centre line of branding

|                            |   |               |                 |
|----------------------------|---|---------------|-----------------|
| cross-sectional area       | : | 63,62         | cm <sup>2</sup> |
| mass per metre             | : | 49,9          | kg/m            |
| moment of inertia x-x axis | : | 1 844         | cm <sup>4</sup> |
| section modulus - Head     | : | 242,1         | cm <sup>3</sup> |
| section modulus - Base     | : | 256,6         | cm <sup>3</sup> |
| moment of inertia y-y axis | : | 362,4         | cm <sup>4</sup> |
| section modulus y-y axis   | : | 53,7          | cm <sup>3</sup> |
| indicative dimensions      | : | A = 40,471 mm |                 |

Figure A.12 — Rail profile 50E5

Dimensions in millimetres



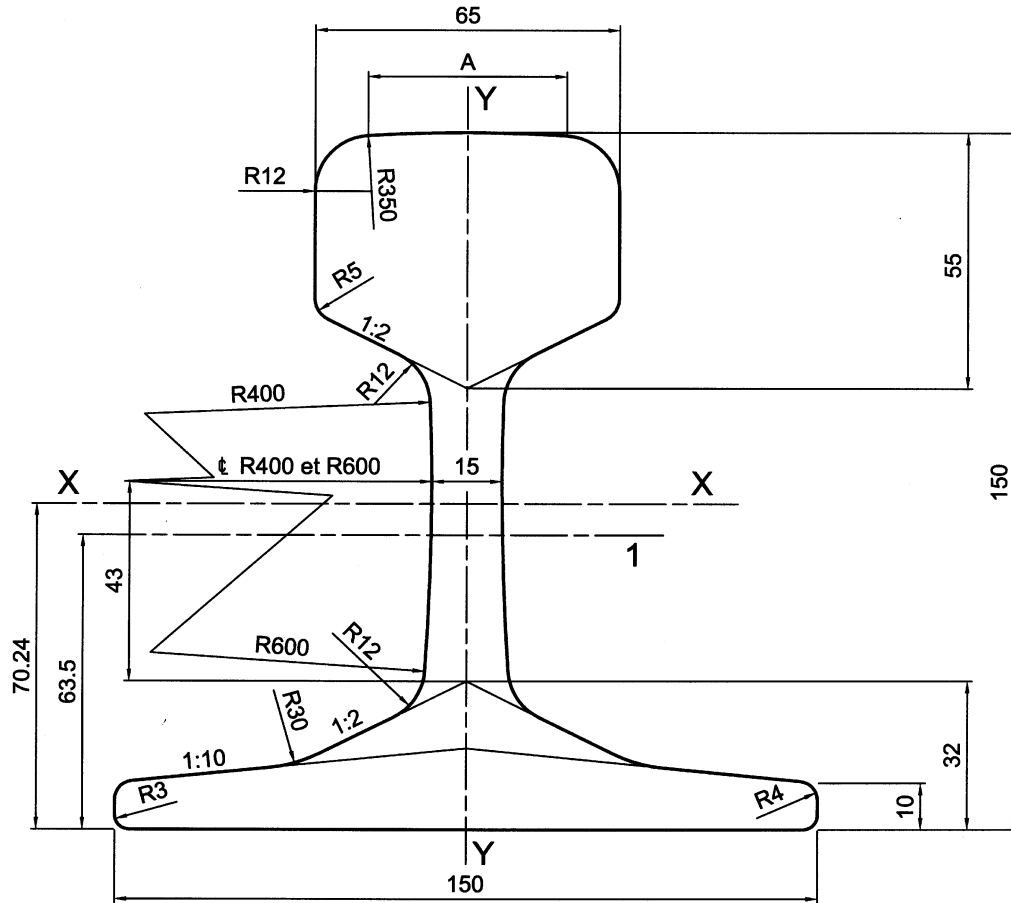
### Key

1 centre line of branding

|                            |   |                                              |                 |
|----------------------------|---|----------------------------------------------|-----------------|
| cross-sectional area       | : | 64,84                                        | cm <sup>2</sup> |
| mass per metre             | : | 50,90                                        | kg/m            |
| moment of inertia x-x axis | : | 2 017,8                                      | cm <sup>4</sup> |
| section modulus - Head     | : | 248,3                                        | cm <sup>3</sup> |
| section modulus - Base     | : | 281,3                                        | cm <sup>3</sup> |
| moment of inertia y-y axis | : | 396,8                                        | cm <sup>4</sup> |
| section modulus y-y axis   | : | 56,7                                         | cm <sup>3</sup> |
| indicative dimensions      | : | <i>A</i> = 30,942 mm<br><i>B</i> = 43,838 mm |                 |

**Figure A.13 — Rail profile 50E6**

Dimensions in millimetres



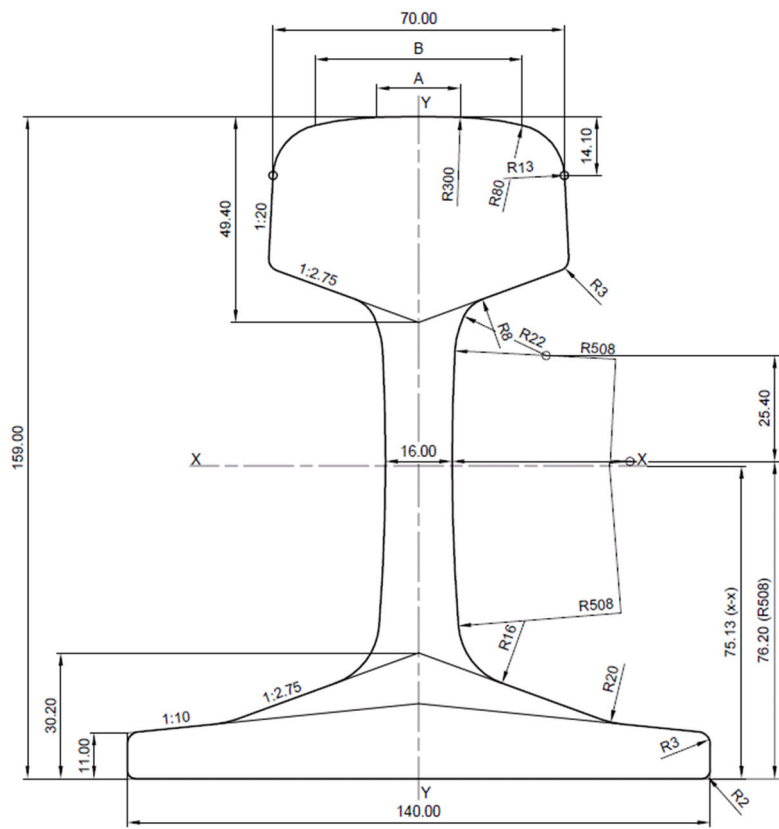
### Key

1 centre line of branding

|                            |   |               |                 |
|----------------------------|---|---------------|-----------------|
| cross-sectional area       | : | 66,43         | cm <sup>2</sup> |
| mass per metre             | : | 52,15         | kg/m            |
| moment of inertia x-x axis | : | 1 970,9       | cm <sup>4</sup> |
| section modulus - Head     | : | 247,1         | cm <sup>3</sup> |
| section modulus - Base     | : | 280,6         | cm <sup>3</sup> |
| moment of inertia y-y axis | : | 434,2         | cm <sup>4</sup> |
| section modulus y-y axis   | : | 57,9          | cm <sup>3</sup> |
| indicative dimensions      | : | A = 42,456 mm |                 |

**Figure A.14 — Rail profile 52E1**

Dimensions in millimetres



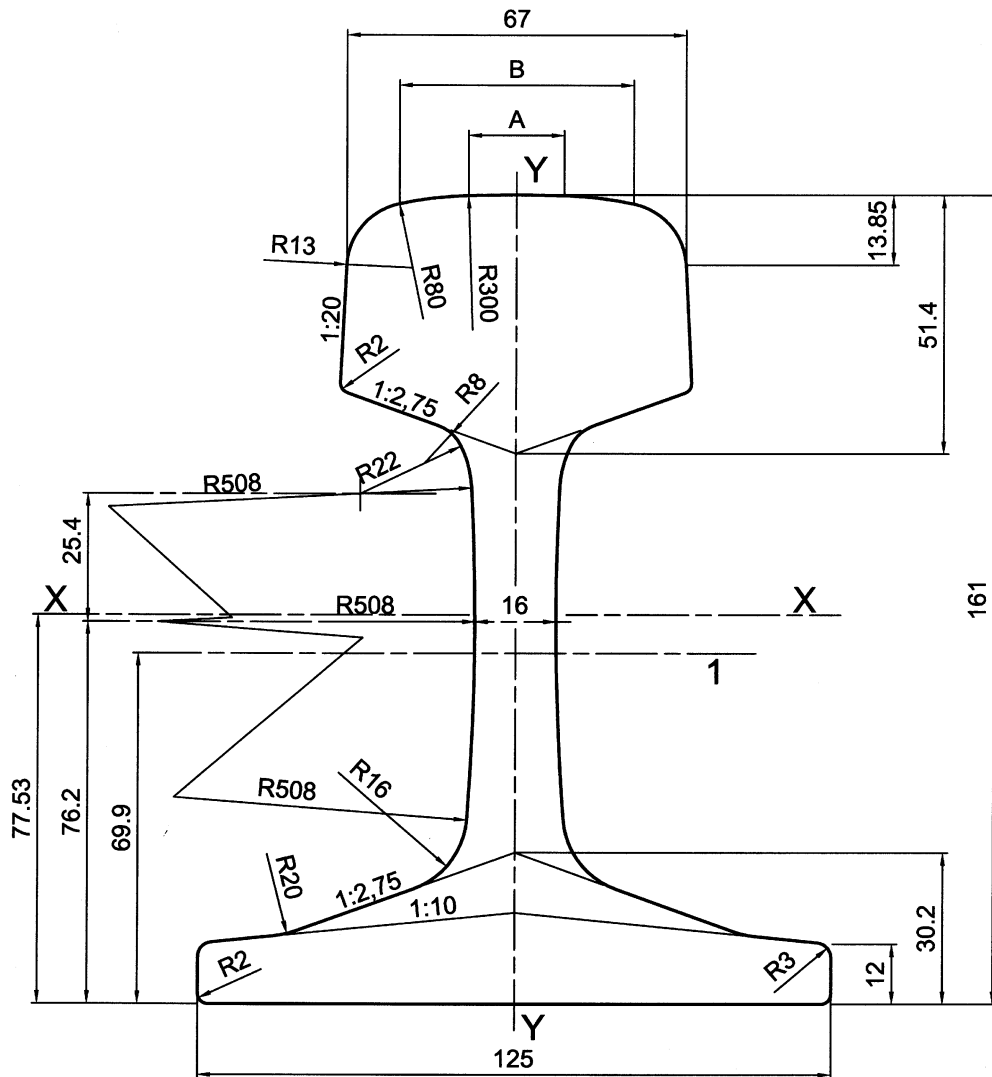
Key

1 centre line of branding

|                            |   |               |                 |
|----------------------------|---|---------------|-----------------|
| cross-sectional area       | : | 69,77         | cm <sup>2</sup> |
| mass per metre             | : | 54,77         | kg/m            |
| moment of inertia x-x axis | : | 2 337,9       | cm <sup>4</sup> |
| section modulus - Head     | : | 278,7         | cm <sup>3</sup> |
| section modulus - Base     | : | 311,2         | cm <sup>3</sup> |
| moment of inertia y-y axis | : | 419,2         | cm <sup>4</sup> |
| section modulus y-y axis   | : | 59,9          | cm <sup>3</sup> |
| indicative dimensions:     |   | A = 20,024 mm |                 |
|                            |   | B = 49,727 mm |                 |

Figure A.15 — Rail profile 54E1

Dimensions in millimetres



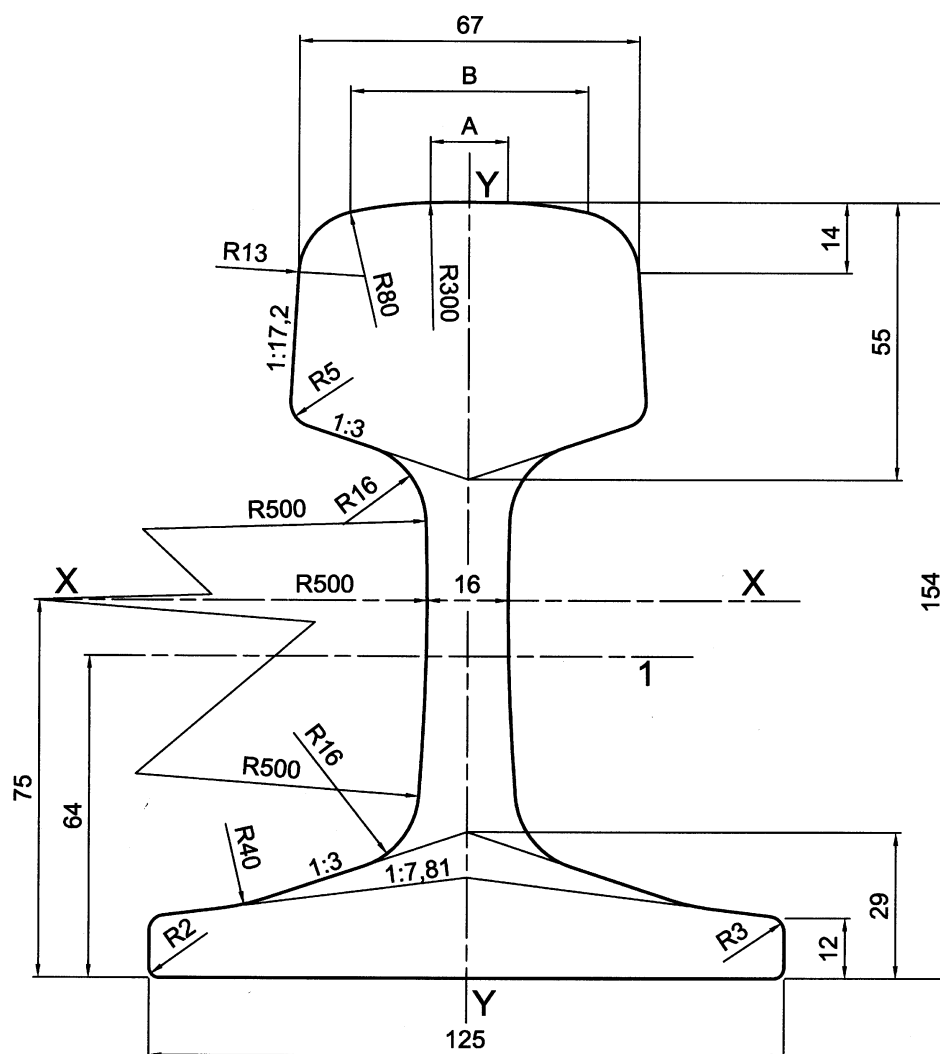
### Key

1 centre line of branding

|                            |               |         |                 |
|----------------------------|---------------|---------|-----------------|
| cross-sectional area       | :             | 68,56   | cm <sup>2</sup> |
| mass per metre             | :             | 53,82   | kg/m            |
| moment of inertia x-x axis | :             | 2 307,4 | cm <sup>4</sup> |
| section modulus - Head     | :             | 276,4   | cm <sup>3</sup> |
| section modulus - Base     | :             | 297,6   | cm <sup>3</sup> |
| moment of inertia y-y axis | :             | 341,5   | cm <sup>4</sup> |
| section modulus y-y axis   | :             | 54,6    | cm <sup>3</sup> |
| indicative dimensions:     | A = 18,946 mm |         |                 |
|                            | B = 46,310 mm |         |                 |

Figure A.16 — Rail profile 54E2

Dimensions in millimetres



# Key

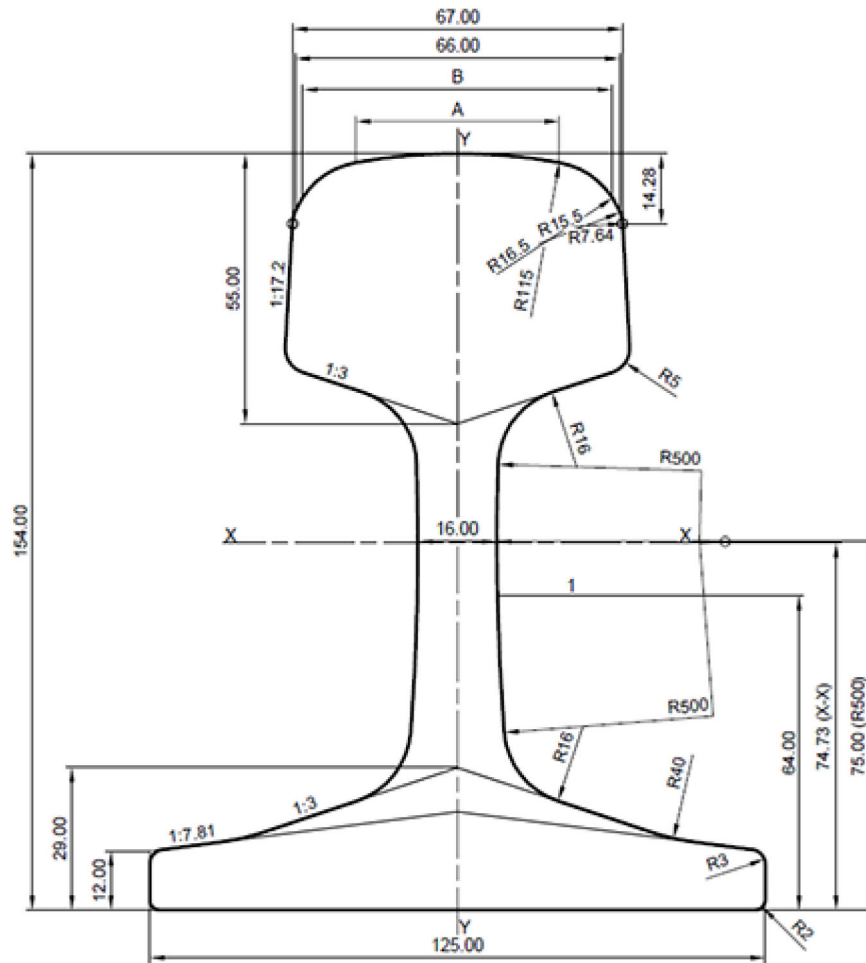
1 centre line of branding

|                            |               |       |                 |
|----------------------------|---------------|-------|-----------------|
| cross-sectional area       | :             | 69,52 | cm <sup>2</sup> |
| mass per metre             | :             | 54,57 | kg/m            |
| moment of inertia x-x axis | :             | 2 074 | cm <sup>4</sup> |
| section modulus - Head     | :             | 262,8 | cm <sup>3</sup> |
| section modulus - Base     | :             | 276,3 | cm <sup>3</sup> |
| moment of inertia y-y axis | :             | 354,8 | cm <sup>4</sup> |
| section modulus y-y axis   | :             | 56,8  | cm <sup>3</sup> |
| indicative dimensions:     | A = 15,267 mm |       |                 |
|                            | B = 46,835 mm |       |                 |

Figure A.17 — Rail profile 54E3

Dimensions in millimetres

A1



A1

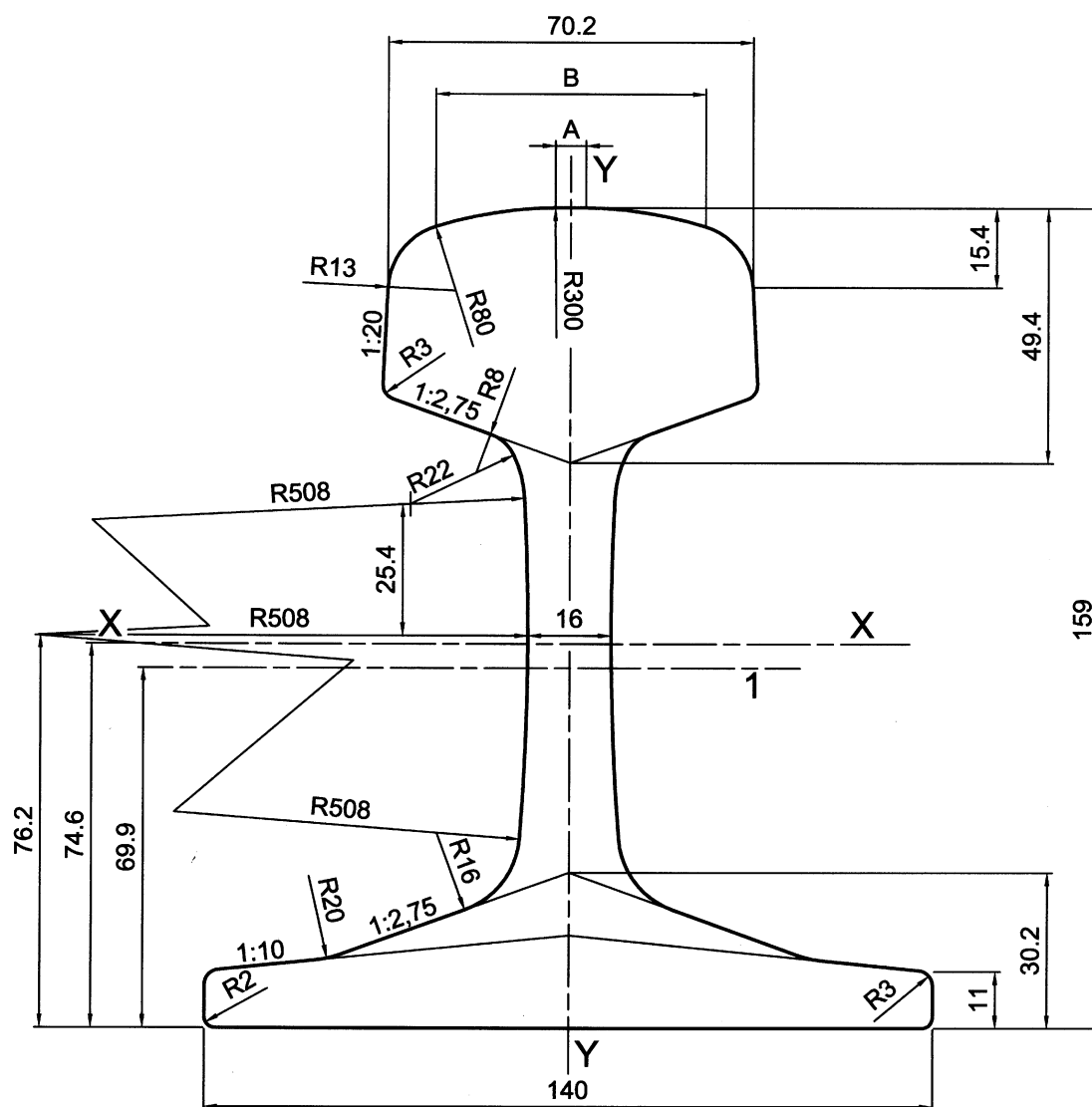
## Key

1 centre line of branding

|                            |   |               |                 |
|----------------------------|---|---------------|-----------------|
| cross-sectional area       | : | 69,19         | cm <sup>2</sup> |
| mass per metre             | : | 54,31         | kg/m            |
| moment of inertia x-x axis | : | 2056,2        | cm <sup>4</sup> |
| section modulus - Head     | : | 259,4         | cm <sup>3</sup> |
| section modulus - Base     | : | 275,2         | cm <sup>3</sup> |
| moment of inertia y-y axis | : | 352,7         | cm <sup>4</sup> |
| section modulus y-y axis   | : | 56,4          | cm <sup>3</sup> |
| indicative dimensions:     |   | A = 41,342 mm |                 |
|                            |   | B = 62,980 mm |                 |

Figure A.18 — Rail profile 54E4

Dimensions in millimetres

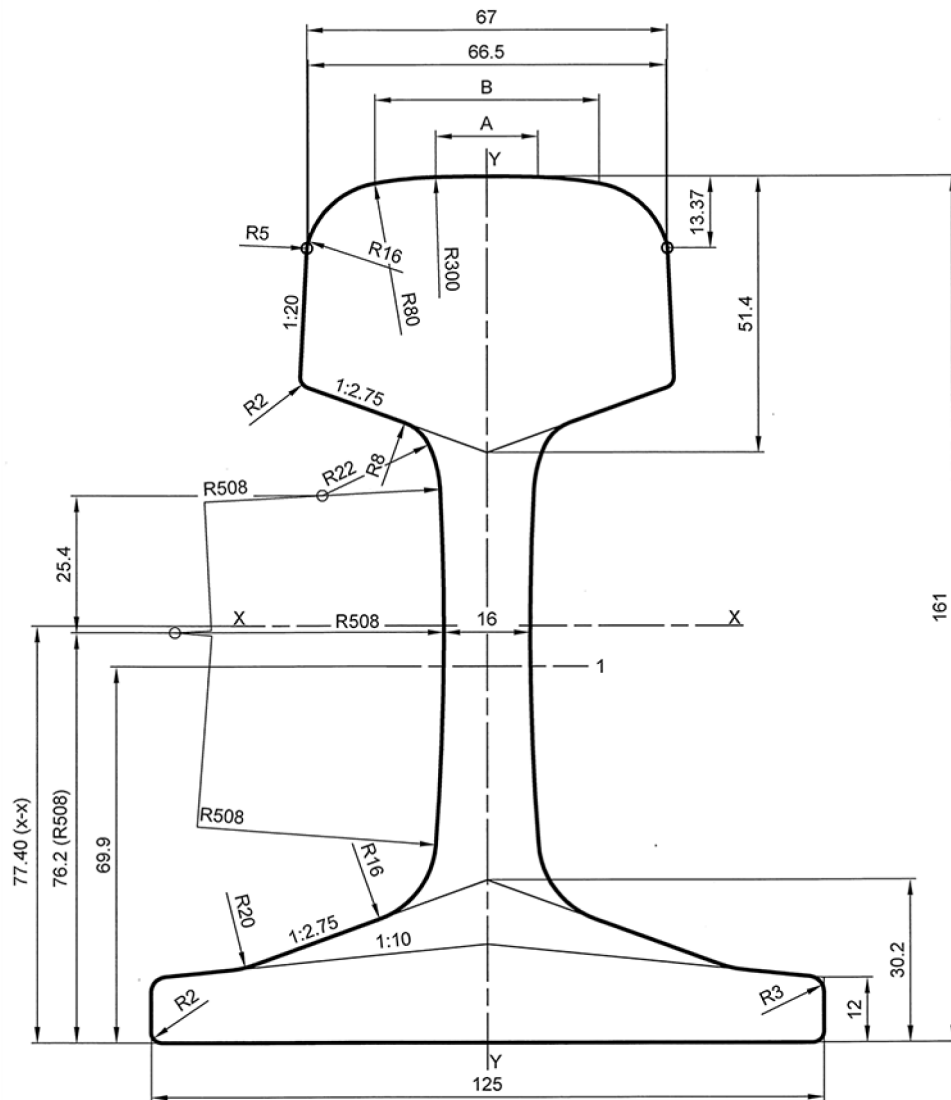


### Key

1 centre line of branding

|                            |   |              |                 |
|----------------------------|---|--------------|-----------------|
| cross-sectional area       | : | 69,32        | cm <sup>2</sup> |
| mass per metre             | : | 54,42        | kg/m            |
| moment of inertia x-x axis | : | 2308,1       | cm <sup>4</sup> |
| section modulus - Head     | : | 273,5        | cm <sup>3</sup> |
| section modulus - Base     | : | 309,4        | cm <sup>3</sup> |
| moment of inertia y-y axis | : | 416,3        | cm <sup>4</sup> |
| section modulus y-y axis   | : | 59,5         | cm <sup>3</sup> |
| indicative dimensions:     |   | A = 5,91 mm  |                 |
|                            |   | B = 51,97 mm |                 |

**Figure A.19 — Rail profile 54E5**



### Key

1 centre line of branding

|                            |   |               |                 |
|----------------------------|---|---------------|-----------------|
| cross-sectional area       | : | 68,45         | cm <sup>2</sup> |
| mass per metre             | : | 53,74         | kg/m            |
| moment of inertia x-x axis | : | 2 300,6       | cm <sup>4</sup> |
| section modulus - Head     | : | 275,2         | cm <sup>3</sup> |
| section modulus - Base     | : | 297,2         | cm <sup>3</sup> |
| moment of inertia y-y axis | : | 340,6         | cm <sup>4</sup> |
| section modulus y-y axis   | : | 54,5          | cm <sup>3</sup> |
| indicative dimensions:     |   | A = 19,000 mm |                 |
|                            |   | B = 41,693 mm |                 |

Figure A.20 — Rail profile 54E6