

### Standards of European Model Railroads

# Cross-section of the Formation for Narrow Gauge Railroads

**123** 

1 Page

Recommendation

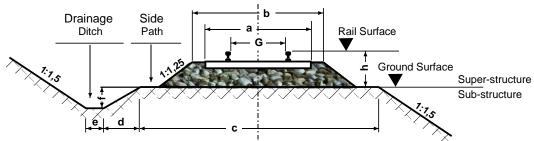
**Dimensions in mm** 

Edition 2005

(First English Edition)

- 1. This standard contains guidelines for the cross-section of the formation of narrow-gauge railroads. For the purposes of this standard, "sub-structure" and "super-structure" are meant in the railroad engineering sense.
- 2. The figure shows the regular cross-section of a single track with straight track. When depicting special terrain, e.g. rock formations or supporting walls, the cross-section of the sub-structure shown can be deviated from: the dimension "c" is also to be adhered to in these cases.

Note: 1) In case of a modern substructure, an underground drainage pipe is provided instead of a drainage ditch.



#### Dimension Table "m":

|       | ,,      |    |    |     |     |     |                 |
|-------|---------|----|----|-----|-----|-----|-----------------|
| Scale | Gauge G | а  | b  | С   | k   | f   | h <sup>2)</sup> |
| Zm    | 4.5     | 8  | 10 | 19  | 1.5 | 1   | 3               |
| Nm    | 6.5     | 12 | 14 | 26  | 2   | 1.5 | 4               |
| TTm   | 9       | 15 | 18 | 35  | 3   | 2.5 | 5               |
| H0m   | 12      | 21 | 25 | 48  | 4   | 3   | 6               |
| Sm    | 16.5    | 28 | 34 | 66  | 5   | 3.5 | 8               |
| 0m    | 22.5    | 40 | 49 | 94  | 7   | 5   | 11              |
| lm    | 32      | 56 | 69 | 132 | 9   | 6   | 16              |
| IIm   | 45      | 80 | 98 | 188 | 13  | 9   | 22              |

Note: 2) In the reproduction of old tracks with a light superstructure, the superstructure height is 2/3 h.

#### Dimension Table "e":

| Scale | Gauge G | а    | b   | С   | k  | f   | h   |
|-------|---------|------|-----|-----|----|-----|-----|
| Ne    | 4.5     | 9.5  | 12  | 19  | 2  | 1.5 | 3   |
| TTe   | 6.5     | 12.5 | 16  | 25  | 3  | 2.5 | 3.5 |
| H0e   | 9       | 17   | 22  | 35  | 4  | 3   | 4.5 |
| Se    | 12      | 23.5 | 30  | 48  | 5  | 3.5 | 5.5 |
| 0e    | 16.5    | 33   | 42  | 68  | 7  | 5   | 7   |
| le    | 22.5    | 47   | 60  | 96  | 9  | 6   | 10  |
| lle   | 32      | 67   | 85  | 136 | 13 | 9   | 14  |
| IIIe  | 45      | 94   | 120 | 194 | 19 | 12  | 20  |

## Dimension Table "i" 3):

| Scale | Gauge G | а  | b   | С   | k  | f   | h <sup>4)</sup> |
|-------|---------|----|-----|-----|----|-----|-----------------|
| TTi   | 4.5     | 11 | 14  | 25  | 3  | 2.5 | -               |
| H0i   | 6.5     | 15 | 20  | 35  | 4  | 3   | -               |
| Si    | 9       | 20 | 27  | 47  | 5  | 3.5 | -               |
| 0i    | 12      | 29 | 38  | 67  | 7  | 5   | -               |
| li    | 16.5    | 41 | 53  | 94  | 9  | 6   | -               |
| Ili   | 22.5    | 58 | 76  | 133 | 13 | 9   | •               |
| IIIi  | 32      | 81 | 106 | 188 | 19 | 12  | -               |

**Notes:** 3) The measurement table "i" does not apply to pure field railroads.

- <sup>4)</sup> No specification, as the model of the gravel usually passes into the substructure without any step.
- 3. If track curves with super-elevation are constructed, NEM 114 must be observed.
- 4. When installing signals, overhead wire masts, etc. in the side path, the clearance of the clear area according to NEM 104 must be observed.