



# Luxembourg Transverse Mercator (LTM) Projection

Projection Parameters · Version: 14 July 2026 · Effective date: 1930

The national LURES LTM coordinates are obtained from ETRS89 in two stages: first the ETRS89-to-LURES datum transformation, then the projection onto the Luxembourgish Transverse Mercator (LTM) grid. The ellipsoidal and projection parameters required for this second stage are listed below.

**Table 1:** Reference ellipsoid — Hayford (International 1924).

| Parameter                         | Value                   |
|-----------------------------------|-------------------------|
| Semi-major axis $a$ [m]           | 6 378 388               |
| Inverse flattening $1/f$          | 297                     |
| Fundamental point (Laplace point) | Habay-la-Neuve, Belgium |

**Table 2:** Projection parameters — Luxembourgish Transverse Mercator (LTM).

| Parameter                        | Value                    |
|----------------------------------|--------------------------|
| Projection type                  | Transverse Mercator      |
| Longitude of central meridian    | 6° 10' East of Greenwich |
| Scale factor at central meridian | 1                        |
| Longitude of origin              | 6° 10' East of Greenwich |
| Latitude of origin               | 49° 50' North of Equator |
| False easting [m]                | 80 000                   |
| False northing [m]               | 100 000                  |