



## National Gauss Luxemburg Projection Parameters

In order to produce official national LUREF Gauss Luxemburg coordinates, the ETRF2000toLUREF datum transition, as well as the appropriate ellipsoidal and projection parameters have to be used within the coordinate transformation:

1. Ellipsoidal transition on Hayford international 1924  
Semi-major axis: 6378388m  
Flattening (1/f): 1/297  
Fundamental point (Laplace-point): Habay-la-Neuve in Belgium
2. Gauss Luxemburg projection  
Projection type: Transverse Mercator  
Projection parameters:
  - Longitude of central meridian: 6° 10' East of Greenwich
  - Central meridian scale factor : 1
  - Longitude of origin: 6° 10' East of Greenwich
  - Latitude of origin: 49° 50' North of Equator
  - False origin:
    - o False Easting: 80'000m
    - o False Northing: 100'000m