Narbo Via
Narbonne, France
2012 – 2020

Client:	Région Occitanie
Appointment:	2012
Construction Start:	2015
Construction End:	2020
Site Area:	21,900m²
Area (Gross):	9,689m²
Net Internal Area:	8,904m²
Typical Floor Area (NET):	6,764m²
Typical Floor Area (Gross):	7,386m²
Number of Buildings:	1
Number of Floors:	2 storeys 1 basement
Building Dimensions:	Height: 8m Length: 91m Width: 86m
Capacity:	1499 visitors and staff
Parking facilities:	Spaces for 35 cars

Structure:

- 15m span precast concrete roof deck from double-T beams, on 12m pre-cast primary beams. Structural facade from decorative

concrete using local materials. Piled or raft foundation (to be determined).

Materials:

- Grey pre-cast concrete roof structure.
- Low cement, dry mix concrete structural facades using local aggregates with sedimentary decorative appearance.
- Polished concrete floor.

Sustainability:

- Highly insulated building envelope with high levels of air tightness.
- Use of exposed thermal mass floors, walls, and roof structure
- Over-sailing roof structure to shade clerestory windows and pedestrian routes.
- Internal courtyards planted to provide shade and cooling by evapo-transpiration.
- Thermal zoning of spaces to provide smooth transition between outside and inside.
- Adaptive comfort brief that allows spaces to operate at higher temperatures during summer months.
- Radiant floors providing both heating and cooling to public areas of the building.
- Underfloor displacement ventilation strategy to public areas
- Demand control ventilation responding to changing occupancy levels.
- Mechanical ventilation with heat recovery at all air handling units, with free cooling cycle.
- Use of highly efficient DC fan coil units to provide heating and cooling to administrative zones.
- Low energy lighting strategy assisted by daylight from strategically located rooflights and windows.
- Passive design features have been informed by Roman precedents for maintaining thermal and visual comfort.