Bridge section:
FRP Composite modular railing 1040x2000mm (+1000mm from walking level)
FRP Composite parapet height 500mm with integrated LED light (+450mm from walking level)
FRP Composite Bridge Deck 466mm with integrated rain water gutter
FRP Composite Bridge structure 106mm
FRP Composite angle foundation connection 30mm with additional web support

Final cross-section with railing
FRP Composite ply 8mm
Epoxy resin, E-glass fibres, UD lay-up

FRP Composite core 90mm
PVC cross-linked foam, rigid, DH 0.030

Exterior LED light, white colour, 80lm/W
8.5x17.2x1900mm

Optional embedded wooden mould element in order to create the LED light cavity
22x11/16x1900mm

Detail 2 (all dimensions in mm)
Detail 3 (all dimensions in mm)

- **FRP Composite ply 8mm**
  - Epoxy resin, E-glass fibres, UD lay-up

- **FRP Composite core 90mm**
  - PVC cross-linked foam, rigid, DH 0.030

- **FRP Composite water rain gutter 20x33mm**

- **FRP Composite deck ply 5mm**
  - Epoxy resin, E-glass fibres, UD lay-up

- **FRP Composite deck core 20-500mm**
  - PVC cross-linked foam, rigid, DH 0.015

- **Non-slippery flooring 3mm**
  - gravel stones, epoxy resin

- **Embedded wooden mould element in order to create the gutter cavity, 33/50x20**

- **Mould seam**
Foundation system

Ground section:
- Concrete pavers with sand filled joints 60x200x75mm
- Bedding sand nominal 200mm
- Compacted soil sub-grade min.300mm
- Steel "kick-pate" - protection from uneven ground settlement- 25x2000x800
- Reinforced concrete foundation 1500x1500mm
FRP Composite deck ply 5mm, Epoxy resin, E-glass fibres, UD lay-up
FRP Composite deck shear web 2mm
Epoxy resin, E-glass fibres, UD lay-up
FRP Composite deck core 90mm
PVC cross-linked foam, rigid, DH 0.015, 20–500mm
FRP Composite ply with embedded steel plate 11mm
Epoxy resin, E-glass fibres, UD lay-up
Concrete pavers with sand filled joints 60x200x75mm

Non-slippery flooring 3mm, mixed gravel stones/epoxy resin
FRP Composite deck ply 5mm, Epoxy resin, E-glass fibres, UD lay-up
FRP Composite deck shear web 2mm
Epoxy resin, E-glass fibres, UD lay-up
FRP Composite deck core 90mm
PVC cross-linked foam, rigid, DH 0.015, 20–500mm
FRP Composite ply with embedded steel plate 11mm
Epoxy resin, E-glass fibres, UD lay-up
Concrete pavers with sand filled joints 60x200x75mm

Detail 5 (all dimensions in mm)
M10 bolt welded on perforated steel plate 25mm
FRP Composite angle foundation connection 30mm
FRP Composite ply with embedded steel plate 11mm
Reinforced stainless steel plate 3mm
FRP Composite deck core 90mm
PVC cross-linked foam, rigid, DH 0.015, 20-500mm
FRP Composite deck shear web 2mm
Epoxy resin, E-glass fibres, UD lay-up
FRP Composite ply 8mm
Epoxy resin, E-glass fibres, UD lay-up
M10 bolt welded on perforated steel plate 25mm
FRP Composite shear web 2mm
Epoxy resin, E-glass fibres, UD lay-up
FRP Composite ply 8mm
Epoxy resin, E-glass fibres, UD lay-up
FRP Composite ply with embedded steel plate 11mm
Perforated stainless steel plate 3mm
FRP Composite deck core 90mm
PVC cross-linked foam, rigid, DH 0.015, 20-500mm
FRP Composite deck shear web 2mm
Epoxy resin, E-glass fibres, UD lay-up
Stainless steel base plate 10mm
Reinforced concrete foundation 1500x1500mm
Embedded wooden mould element in order to create the connection cavity max.95x165

- M6 screw (x2) 10mm
- FRP Composite cover 5mm
- Stainless steel case 2mm
- Perforated stainless steel plate 3mm
- M10 bolt(x2) welded on steel plate 25mm
- FRP Composite ply 8mm
- Epoxy resin, E-glass fibres, UD lay-up
- FRP Composite core 90mm
- PVC cross-linked foam, rigid, DH 0.030
- FRP Composite modular railing 2000mm

deck side

canal side