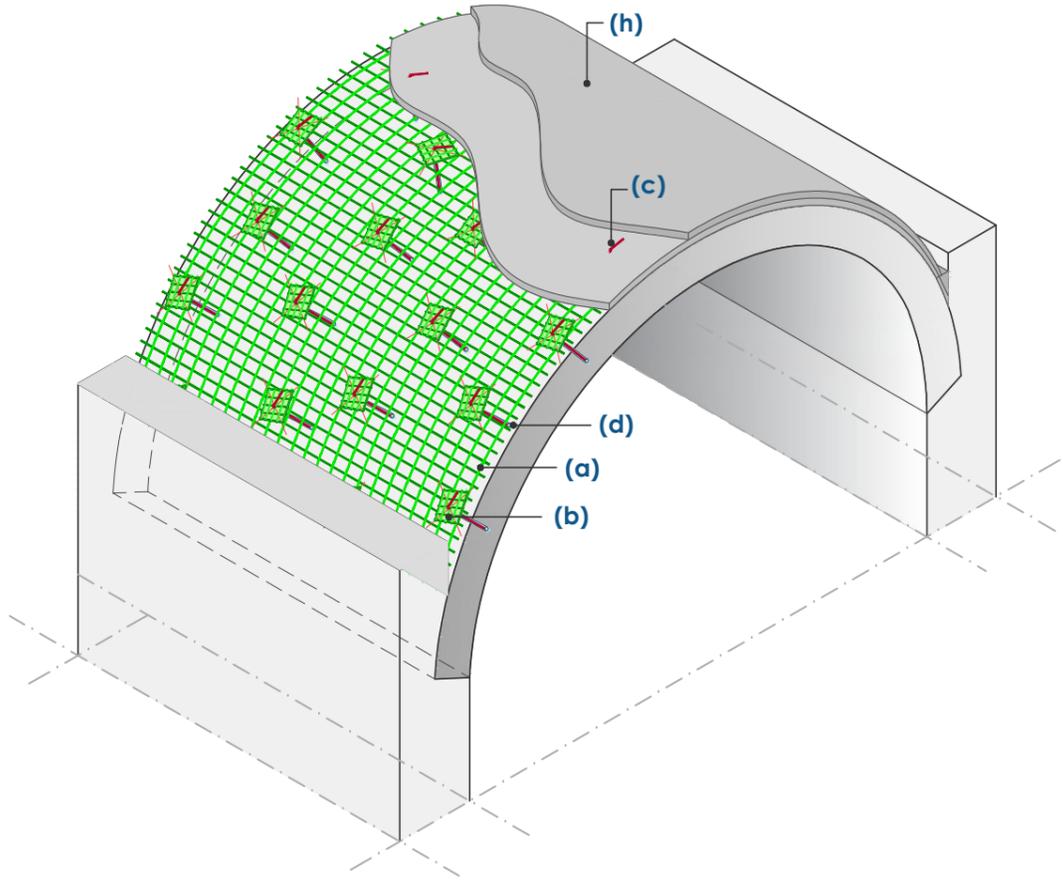
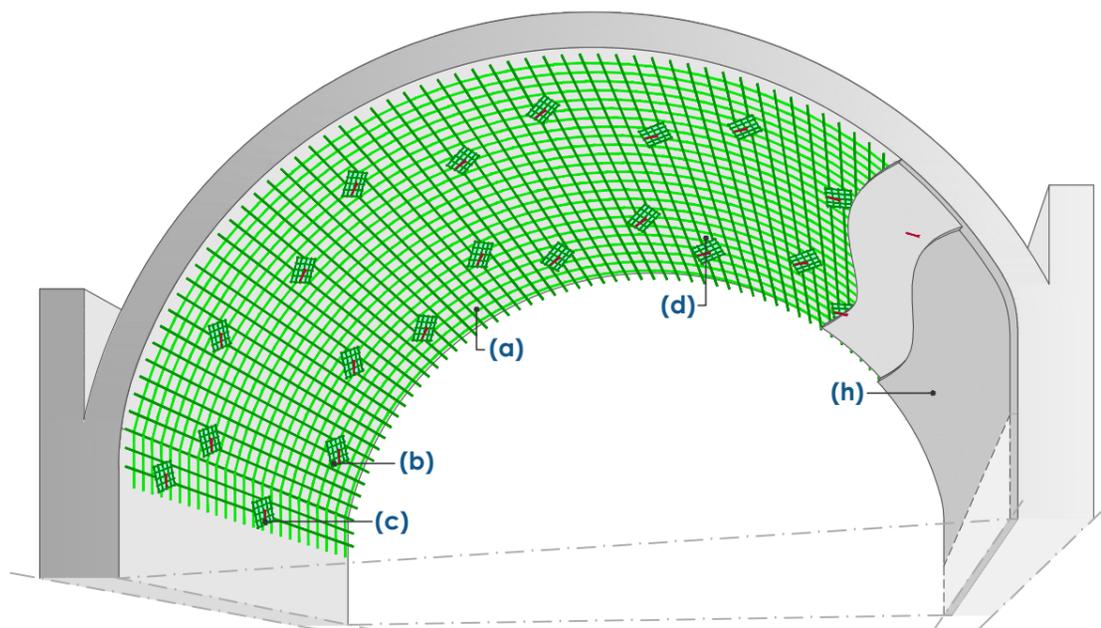




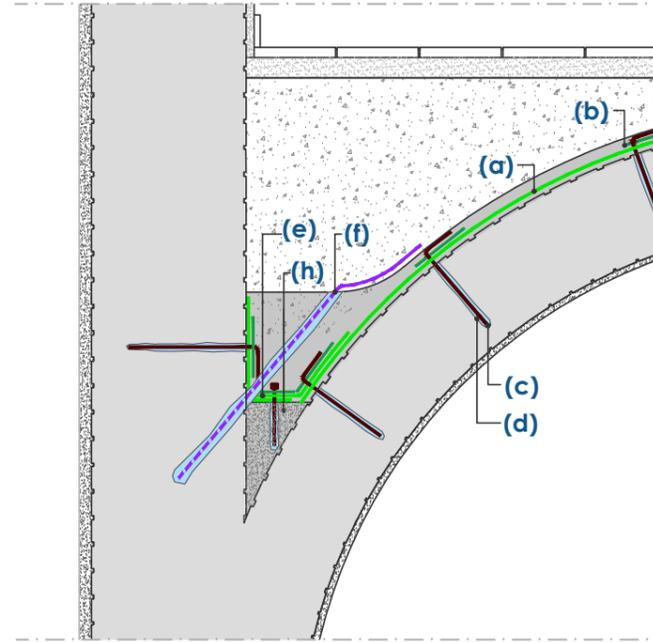
ISOMETRIC VIEW OF THE EXTRADOS



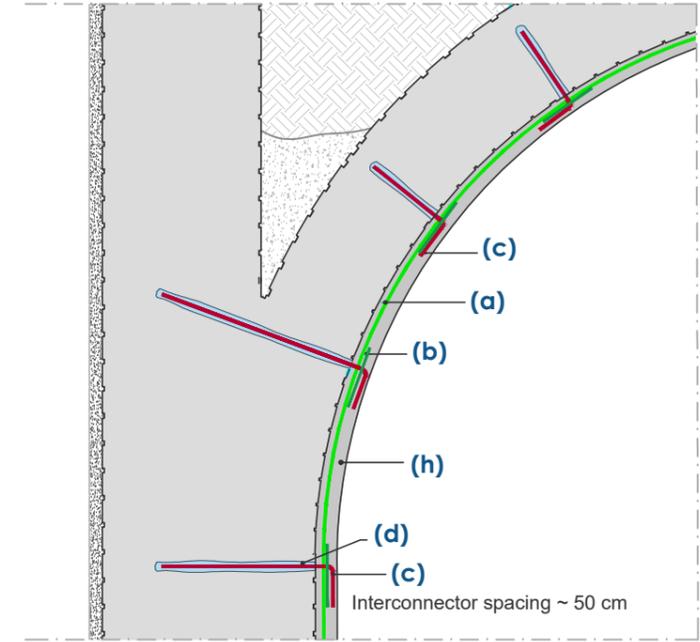
PERSPECTIVE VIEW OF THE INTRADOS



EXTRADOS SECTION



INTRADOS SECTION



DESCRIZIONE DELLE LAVORAZIONI

The RI-STRUTTURA system utilizes the reinforced plaster technique on the extrados and/or intrados of the vault with the application of GFRP nets, connectors, and accessories combined with lime-based mortars with reduced thicknesses (approximately 3 cm).

The connection between the two reinforced plasters is achieved by laying "L" elements in GFRP provided at a rate of 4/6 per m² and arranged according to a staggered pattern; the continuity of the connectors is ensured with an overlap of no less than 10 cm. In the case of intervention on the extrados, it involves removing the flooring, subfloor, and filling until reaching the level of the backup. The removal of the filling must occur uniformly and symmetrically with respect to the keystone, otherwise it is advisable to properly center the vault.

Subsequently, mechanical cleaning of the surface is carried out with dust suction and removal of inconsistent parts; consider wetting the surface if necessary and laying the subsequent rendering.

The works for the reinforcement are articulated in the following phases:

- Laying **FBMESH** net and **FBANG** angular elements on the plaster surface with an overlap of 15/20 cm at joints and corners.
- Marking the position of the holes on the stones and drilling them;

Injection of the previously drilled holes with two-component chemical anchor **INTEGRA FIXA VINYL15** and laying of **FB-FAZ 33X33T96AR** distribution pad with **FBCONL** connector. Proceed with the application of **MATERIA/EPOCA** mortar render with a thickness of 3 cm.

NOTES: Depending on the thermo-hygrometric conditions, wetting of the substrate the day before plastering is recommended.
It is possible to increase the number of connections according to the calculation requirements.

IDENTIFICATION OF CRM MATERIALS

- (a) **FBMESH** (Preformed GFRP mesh)
- (b) **FBFAZ33X33T96AR** (Preformed distribution pad in GFRP)
- (c) **FBCONL** (Preformed "L" shaped connector in GFRP)
- (d) **INTEGRA FIXA VINYL 15** (Two-component chemical anchor)
- (e) **FBANG** (Preformed right-angle element in GFRP)
- (f) **FB-TUP10-VAR1A/2A** (Fiber-reinforced composite bar)
- (g) **FB-HBAR10** (Austenitic stainless steel helical bar)
- (h) **MALTA MATERIA/EPOCA** (Pre-mixed environmentally friendly lime-based paste)

Measurements are expressed in centimeters unless otherwise specified.
For the layout scheme of connectors and the materials table, please refer to table CRM19.

