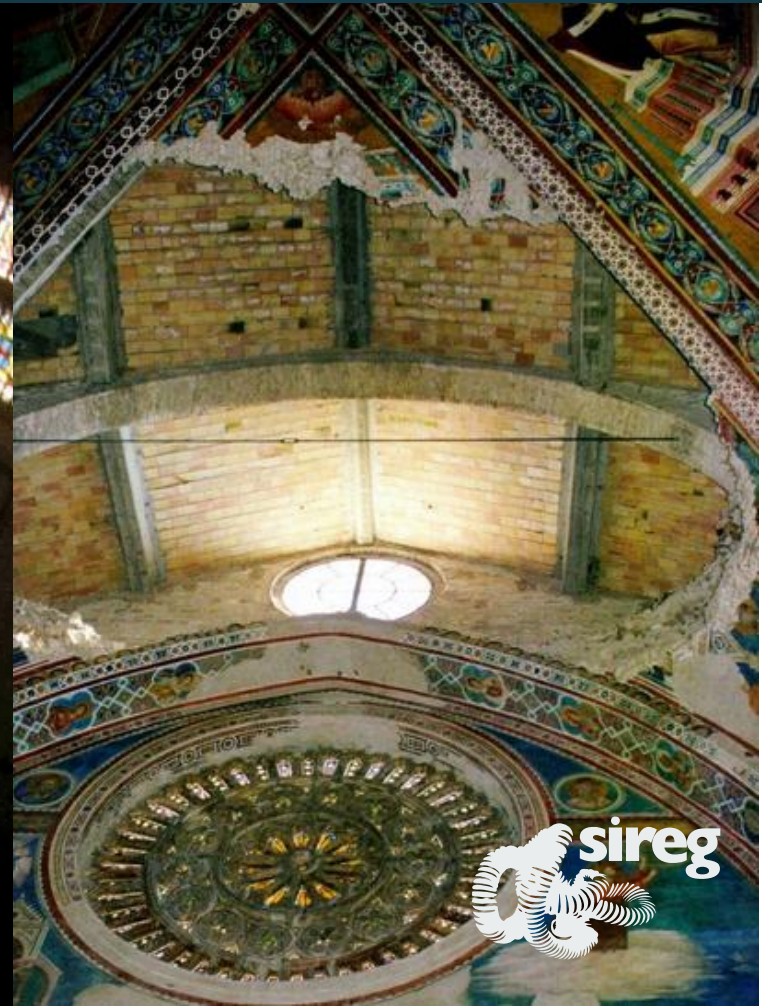


# Historical Sireg

## Assisi Cathedral: Renovation After an Earthquake (Italy)

*A review on world Historical Buildings and Great Civil Monuments strengthened by Sireg solutions*



# Historical Sireg

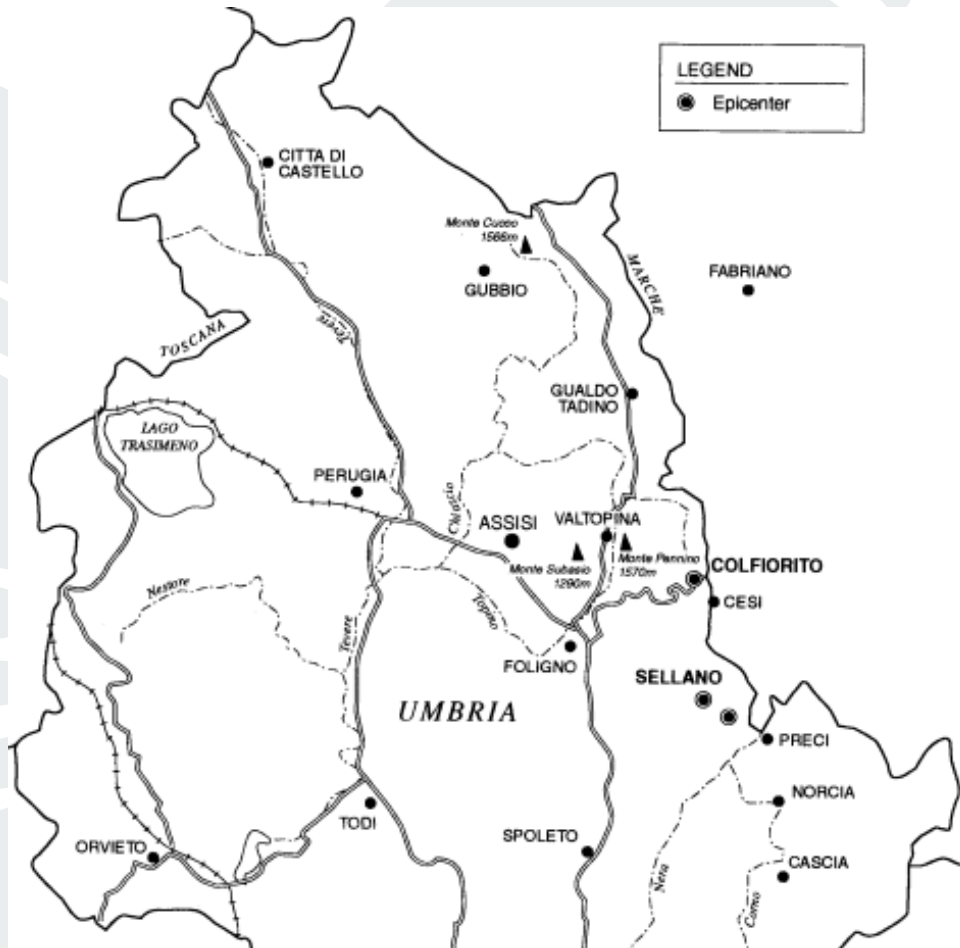
## Assisi Cathedral: Renovation After an Earthquake

Assisi Cathedral was severely damaged by a powerful earthquake in September 1997.

In 1999, **Sireg Geotech** supplied aramid and glass fiber solutions for the repair and structural strengthening project.



Earthquake epicenter (Colfiorito), a few km from Assisi



The earthquake of 26 September 1997 caused extensive damage to the Upper Basilica in Assisi, including the collapse of the vault at two points. Tragically, four people lost their lives; their memory is honored with an inscription on the floor at the basilica's entrance.



Significant damage also affected the south tympanum of the transept, where 130 square meters of medieval frescoes were shattered into fragments. The basilica remained closed to visitors for two years while restoration works were carried out.

# Historical Sireg

## Assisi Cathedral: Renovation After an Earthquake

The earthquake caused the collapse of part of the frescoes on the vault of the first span:

- the San Girolamo (attributed to the young Giotto), where the Four Doctors of the Church were depicted;
- the figure of San Matteo, on the vault portraying the Four Evangelists by Cimabue.



*Courtesy of: M. Arduini*



# Historical Sireg

## Assisi Cathedral: Renovation After an Earthquake

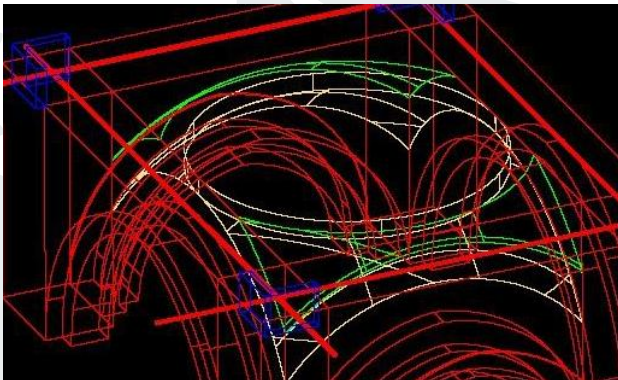
During the repair and strengthening works, which took place in the immediate aftermath, **Sireg** composite materials were extensively applied. **Carbopree®** and **Glasspree®** laminates and rebars, together with **Arapree®** bars and fabrics were approved by the engineering teams.



# Historical Sireg

## Assisi Cathedral: Renovation After an Earthquake

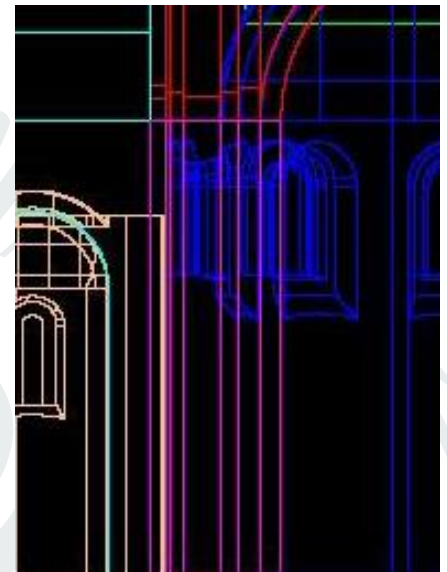
Among the intervention solutions chosen by the designers, **Arapree**<sup>®</sup> fabrics and flat bars 40 x 7 mm



# Historical Sireg

## Assisi Cathedral: Renovation After an Earthquake

**Arapree®** and **Glassree®**  
solutions during the  
installation stage



The vault of the Upper Cathedral, after the restoration project.

