



# Design & Display GRP Structures

## case study: Gurdwara domes and decorative features



## Sikh temples put faith in Design & Display Structures

Design & Display Structures has sympathetically replicated highly ornate traditional architectural symbols of the Sikh faith for two new temples located in the Midlands.

The importance of these temples, known as Gurdwaras to the Sikh community, required an approach that would produce an authentic finish, yet remain cost effective. The GRP experts' stunning white mouldings have done just that.

### Brief

Gurdwaras are instantly recognisable to the Sikh community by their unique and historical architectural features. This meant a solution that remained true to traditional forms, yet offered outstanding durability and light weight.

### Solution

Design & Display Structures delivered the perfect fast-track solution, with each element expertly crafted in GRP. The most striking of these are the distinctive onion-shaped domes, known as Gumuts, which span 4.75m across and stand 11m high. These were designed with historical assistance from the Gurdwara Committee.

Arriving on site on a just in time basis, they were assembled at ground level before being craned into place. In addition, Design & Display Structures produced 33 mini domes, each measuring 0.9m in diameter and manufactured in one piece, plus three oriel windows.

### Benefits

Each dome was produced in 12 orange-like

segments, plus a finial and the stainless steel Khanda – the Sikh emblem. This kept tooling and origination costs down. With both sites using the same moulds, the costs to the committee were effectively halved.

Until recently, these structures would be formed in reinforced concrete – a much heavier and more expensive option compared to GRP.

The segment size and shape also meant they could be nestled during shipping and easily manhandled on site. This reduced the haulage necessary and, therefore, made the project more environmentally friendly.

Combined with fast erection times, Design & Display Structures' turnkey solution took just 10 weeks from start to finish.

This level of efficiency and cost saving simply isn't possible using heavier alternatives and demonstrates why the versatile material is now the specifiers' preferred choice for projects such as these.

### Client:

Surinder Buray

### Commissioned by:

Reade Buray Associates

### Project:

Gurdwara decorative architectural features

### Products:

Onion-shaped domes, mini domes and oriel windows

### Project Duration:

10 weeks

*"The challenge of accurately replicating such significant symbols was an exciting one, both in terms of tooling and turning the products around in a short timeframe. It is a perfect demonstration of GRP's versatility, particularly for fast-track construction programmes."*

*Managing Director, Allan Curtis*