

Project: Design assistance for signage boards.

Client: Manufacturer for Corporate Visual Identity and Shop outfit

The client is a total solution and global supplier of indoor, outdoor and all corporate visual signage elements required for multi site high visibility branded outlets. Their signages include canopy fascia, Main identity display signages, direction & information signages Poster Boards, Building fascia etc. The client was in search of a civil/structural consultant capable of designing the structures in compliance with Euro-code standards. Client requirement also included the calculation documents and drawings prepared to be endorsed by a certified Euro-code Professional Engineer.

Paradigm was chosen to support them in the design of signage structures against a wind speed up to 111kmph, free of rattles and resonant effects for a life span of 10 years.



Main Identity display Signages

Objective:

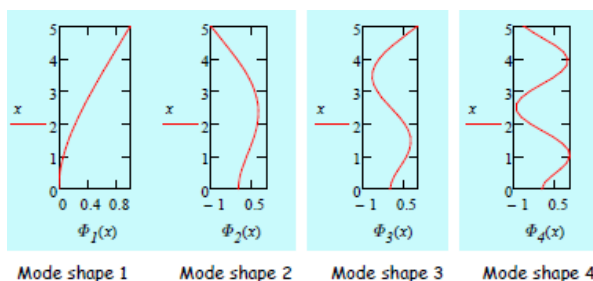
- To design the Signage Structures as per Euro Code standards free from rattles and resonances.
- To prepare design calculations and drawings for construction.
- To endorse the calculations and drawings by our certified Euro-code Professional Engineer.

Services:

- Designed the structure against the given wind load.
- The dynamic effect of wind is considered for the design.
- Ensured that divergence velocity is more than twice the mean velocity of wind.
- Compared the onset velocity of galloping and mean velocity to confirm non occurrence of galloping .
- Checked whether vortex shedding has any adverse affect on the signage.

Benefits:

- Excellent drawings submitted in pdf format.
- Economic Design referring to latest standards
- Timely submission.



Mode shapes of vibration

Software Used: Mathcad. Bricscad

Technology: Design calculation using Mathcad

Design Codes Used:

Country: Europe
Code : EN 1991-1-4-2005

Duration : September 2011 – On going

Team Size : 2 Engineers and 1 Cad Staff

