



# ARCHITECTURAL METAL WORKS

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- ▶ TRAILER/RV RE-CREATIONAL VEHICLES
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- ▶ SS, M.S & ALUMINUM HANDRAILS / GUARD RAILS
- ▶ LED SUPPORT STRUCTURES / SPIRAL STAIRCASE / STEEL RAMPS & BESPOKE STRUCTURAL STEEL SOLUTIONS
- ▶ CUSTOM GATES & FENCING
- ▶ ALUMINIUM LOUVRES, DOORS, CNC MACHINED PATTERNS & CPC CLADDING WORKS
- ▶ CAR PARK SHADES & SPIRAL STAIRCASE



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# STRUCTURAL DESIGN TO FABRICATION

## WIND LOAD FRONT - WLF

**WL 1** = Wind Load on the Front of Sign  
 Wind pressure (Wp) = 1.54 kN/m<sup>2</sup>  
 Area of the Sign x Wp  
 Height of Sign x Width of Sign x Wp  
 3.94 x 2.28 x 1.54  
 13.84kN  
 The weight is equally distributed to appropriate sections  
 $\frac{13.84}{21.00}$   
**0.66 kN / Lm**

## WIND LOAD UPWARD - WLU

**WL 1** = Wind Load on the Front of Sign  
 Wind pressure (Wp) = 1.54 kN/m<sup>2</sup>  
 Area of the Sign x Wp  
 Height of Sign x Width of Sign x Wp  
 3.94 x 2.28 x 1.54  
 13.84kN  
 The weight is equally distributed to appropriate sections  
 $\frac{13.84}{37.50}$   
**0.37 kN / Lm**

## WIND LOAD SIDE - WLS

**WS 1** = Wind Load on the Side of Sign  
 Wind pressure (Wp) = 1.54 kN/m<sup>2</sup>  
 Area of the Sign x Wp  
 2.28 x 0.40 x 1.54  
 1.41 kN  
 The weight is distributed on 2 nos of Vertical tubes  
 $\frac{1.41}{6.85}$   
**0.21 kN / Lm**

## SEISMIC LOADS (EL) : As per UBC 1832.1

Seismic Lateral load on sign = Where  
 $F_p = 4.0 \times C_a \times C_b \times I_p \times W_p1$   
 Where  
 C<sub>a</sub> = Seismic Coefficient = 0.2 (Table 16-Q)  
 I<sub>p</sub> = Importance Factor = 1.0 (Table 16-K)  
 W<sub>p1</sub> = Weight of Element = 0.19 Kg/Lm From DL  
 F<sub>p1</sub> = 0.15 kN/m<sup>2</sup>

## LOAD COMBINATIONS As per 2.3 ASCE 7-05 (LRFD)

Load Combinations = 1.4D  
 Load Combinations = 1.2D + 1.6·Wy  
 Load Combinations = 1.2D + 1.6·Wx  
 Load Combinations = 1.2D + 1.0 E  
 Load Combinations = 0.9D + 1.6·Wy  
 Load Combinations = 0.9D + 1.6·Wx  
 Load Combinations = 0.9D + 1.0 E  
 Load Combinations = 1.0D + 1.0·Wy  
 Load Combinations = 1.0D + 1.0·Wx  
 Load Combinations = 1.0D + 1.0 Wx

All the above loads are applied on the structure using STAAD software and analysis were performed and output results attached.

## DESIGN SPECIFICATIONS

### Anchor

Anchor system fisher Injection system FIS V  
 Injection resin FIS V 360 S  
 Fixing element Threaded rod FTR M 16 x 190, zinc plated steel, Property Class 5.8  
 Calculated anchorage depth 80 mm

Design Data Anchor design in Concrete according European Technical Assessment ETA-02/0024, Option 1, Issued 13/05/2020

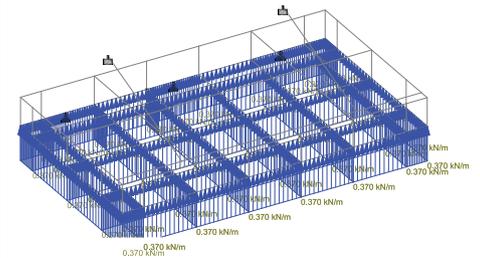
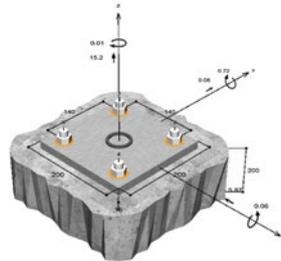
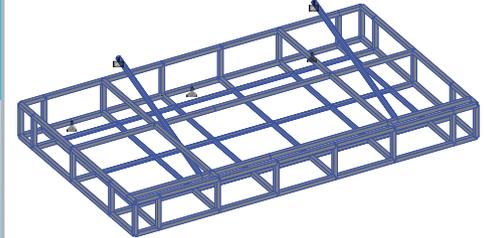


### Geometry / Loads / Scale units

mm, kN, kNm

Value of design actions (including

partial safety factor for the load)



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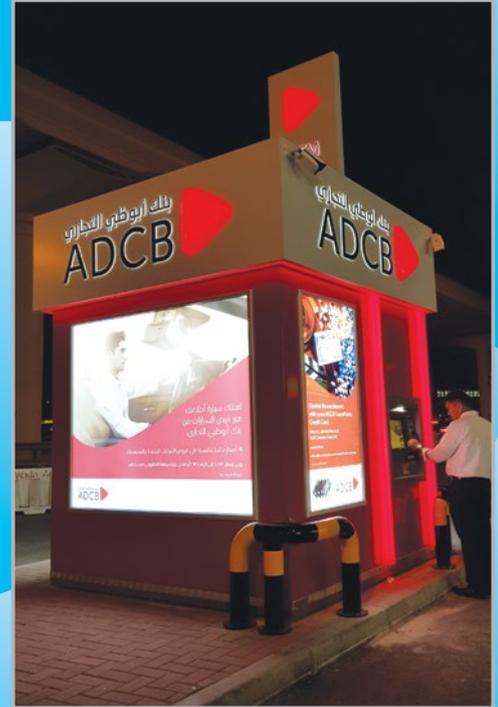
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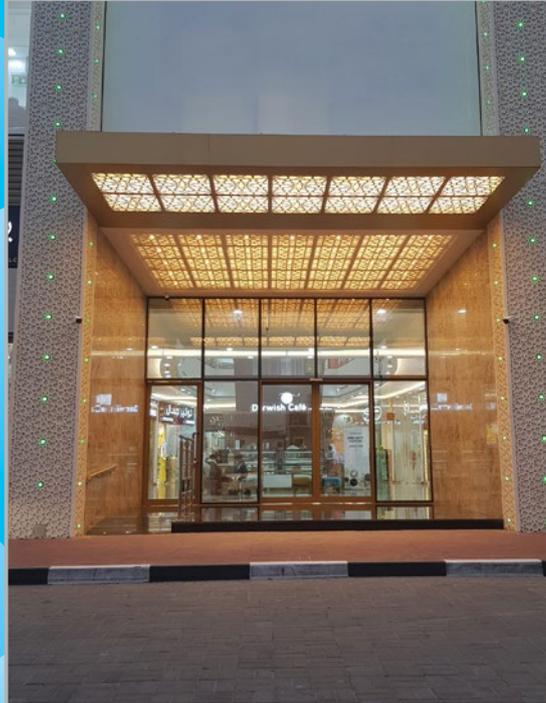


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