



ARCHITECTURAL METAL WORKS

- ▶ STRUCTURAL DESIGN TO FABRICATION
- ▶ TRAILER/RV RE-CREATIONAL VEHICLES
- ▶ METAL KIOSK SOLUTIONS(DESIGN & BUILD)
- ▶ ARCHITECTURAL METAL WORKS
- ▶ STRUCTURAL STEEL WORKS
- ▶ METAL FURNITURE
- ▶ BUILDING CANOPIES
- ▶ 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/m²
 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/m²
 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/m²
 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
 $\frac{1.41}{2}$
 0.71 kN / Lm

SEISMIC LOADS (EL) : As per UBC 1632.1

Seismic Lateral load on sign =
 Where
 Fp = 4.0 x Ca x Ip x Wp1
 Ca = Seismic Coefficient = 0.2 (Table 16-Q)
 Ip = Importance Factor = 1.0 (Table 16-K)
 Wp1 = Weight of Element = 0.19 Kg/Lm From DL
 Fp1 = 0.15 kN/m

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

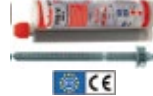
Load Combinations = 1.4D
 Load Combinations = 1.2D + 1.6-Wy
 Load Combinations = 1.2D + 1.6-Wy
 Load Combinations = 1.2D + 1.6-Wx
 Load Combinations = 1.2D + 1.0 E
 Load Combinations = 0.9D + 1.6-Wy
 Load Combinations = 0.9D + 1.6-Wy
 Load Combinations = 0.9D + 1.6-Wx
 Load Combinations = 0.9D + 1.6-Wx
 Load Combinations = 0.9D + 1.0 E
 Load Combinations = 1.0D + 1.0-Wy
 Load Combinations = 1.0D + 1.0-Wy
 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
 Injection resin
 Fixing element
 Calculated anchorage depth
 Design Data
 fisher Injection system FIS V
 FIS V 360 S
 Threaded rod FTR M 16 x 190, zinc plated steel,
 Property Class 5.8
 80 mm
 Anchor design in Concrete according European
 Technical Assessment ETA-02/0024, Option 1,
 Issued 13/05/2020

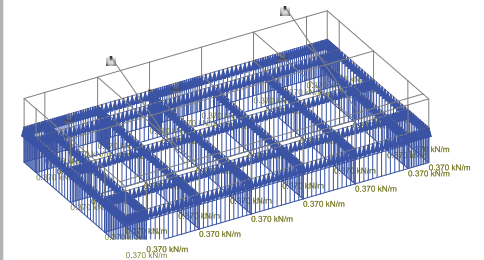
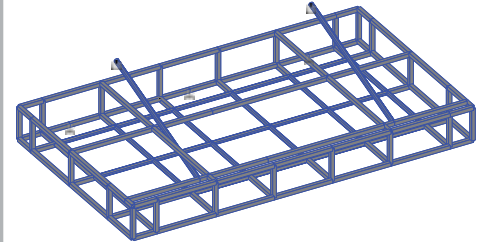
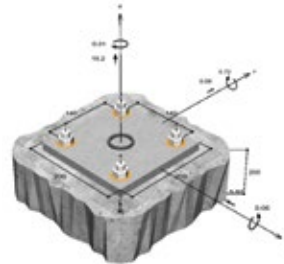


Geometry / Loads / Scale units

mm, kN, kNm

Value of design actions (including

partial safety factor for the load)



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TRAILER/RV RE-CREATIONAL VEHICLES



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STRUCTURAL STEEL WORKS



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METAL FURNITURE



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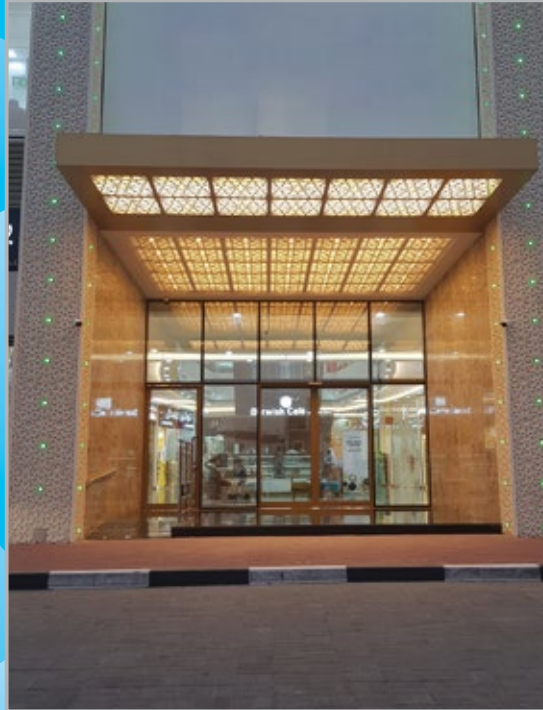


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BUILDING CANOPIES



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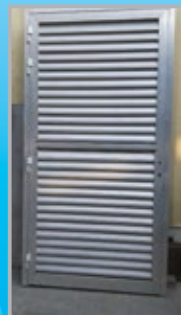


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