



ISO 9001 : 2008

# Manar Shorbrace System

**Manar Al-Omran**  
**Formwork & Scaffolding**

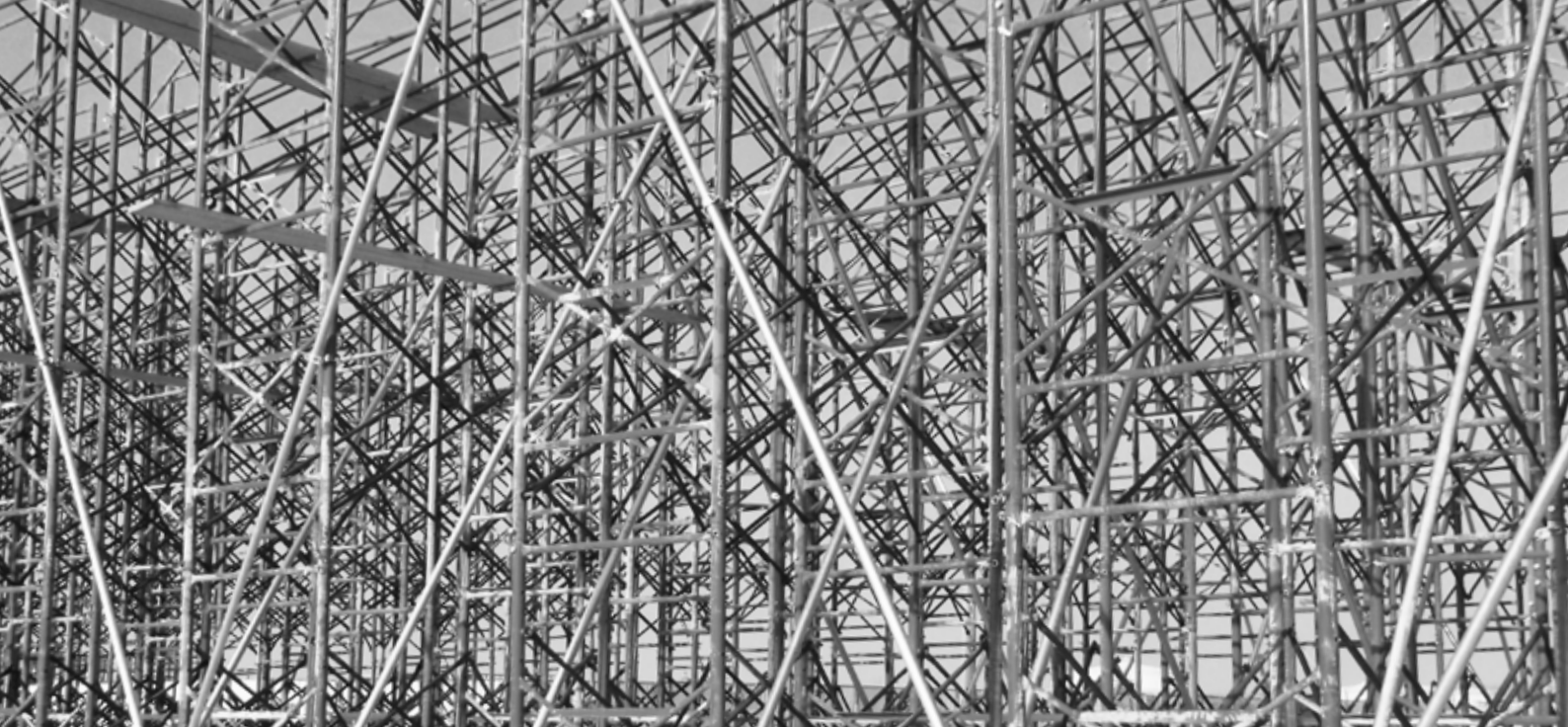
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**BUILD WITH  
MANAR ALOMRAN**







# Content

Introduction	4
Standard Components	6
System Assembly	10
Casing Assembly	11
Application	13
Projects	14
Components	18





## Introduction

It can be used either with steel wailer 10, Double H20 Beam, or Aluminum Beam .

Due to high load capacity Shorbrace is one of the most economic system for heavy civil engineering project. Shorbrace with prop extension is very flexible so one of the best system for building construction.

Vertically adjusting can be done either by post head jack in Shorbrace for heavy structure for building.



## Advantages

- Shorbrace system is heavy duty.
- Variable heights can be obtained by using Shorbrace system .
- Shorbrace is limited components, Shorbrace System saves time & effort.
- It can be easily used in different projects.
- Being easy in erection & dismantling. Shorbrace system does not need highly Professional labor.





## Introduction

### Technical Data

- Safe Working load-capacity: 55 kN per leg, in accordance with AS3610
- Vertical tube are made from steel tube Q345 with Outer diameter 60mm.
- Shorbrace telescopic range is from 0.52 up to 1.42m







## Standard Components

### Shorebrace Frame

Shorbrace frame manufactured from steel tube with outer diameter 60.3mm with thickness 4.0mm. It's braced by steel tube with outer diameter 43mm and thickness 2.0 mm



### Telescopic Frame

Shorbrace telescopic frame made of steel tube with outer diameter 48.3 mm with thick 4.00 mm, the telescopic frame give variable heights to shore brace system, it's considered as coarse adjustment .

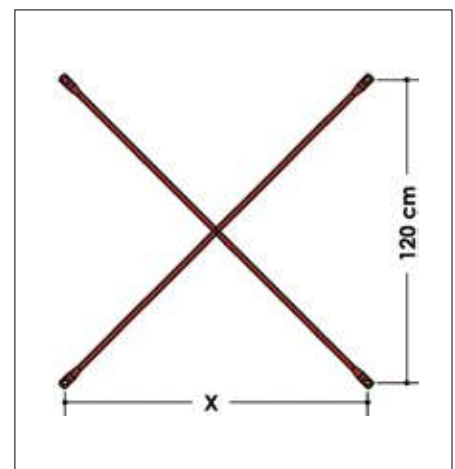




## Standard Components

### Cross Brace

Product	X (CM)	Weight (KG)
Cross Barce 0.90 M	0.90 cm	3.86
Cross Barce 1.20 M	1.20 cm	4.53
Cross Barce 1.50 M	1.50 cm	4.90
Cross Barce 1.80 M	1.80 cm	5.50
Cross Barce 2.10 M	2.10 cm	6.13
Cross Barce 2.40 M	2.40 cm	6.79



### Adjust Jack

Product	Weight (KG)
Adj. U-Head Jack Solid 34 mm	10.6
Adj. Base jack Solid 34 mm	7.40







## Standard Components

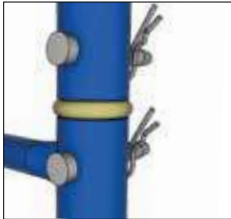
### A cost-effective shoring tower for slab tables and high loads

- Simple and Robust.
- Great heights without any additional Scaffold Tube Bracing.
- High load capacity of standards.
- Large Dead Load efficiency-Carries up to 50 times of its own weight.
- Free standing and able to transfer the horizontal loads from wind.

- 1 Shorbrace Frame 180 cm x120 cm
- 2 Cross Brace 120cm
- 3 Adj. U-Head jack Solid 34 mm-heavy
- 4 Adj. Base jack Solid 34 mm -heavy
- 5 ShorBrace connector
- 6 Primary H20 Beam



Cross Brace Connection  
with Shorbrace Frame



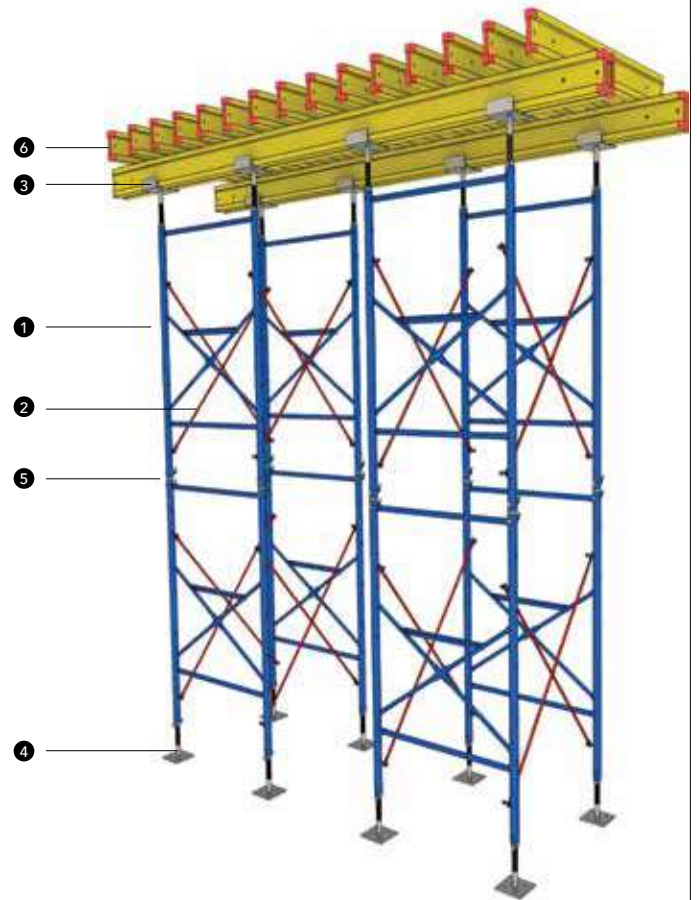
Connect two Shorbrace frame



Adj. U-Head jack Solid



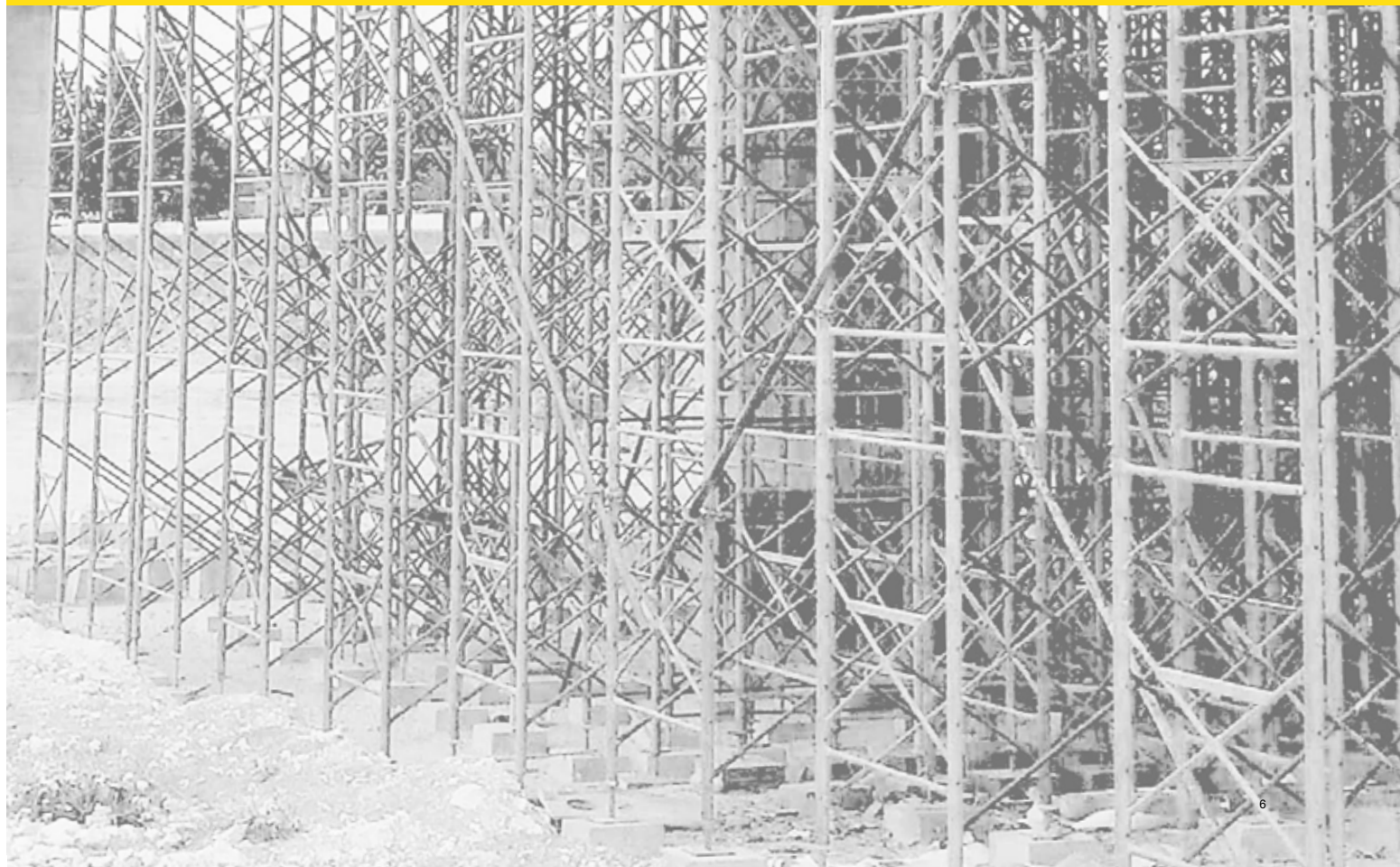
Adj. Base jack Solid







# **Shorbrace System Assembly**

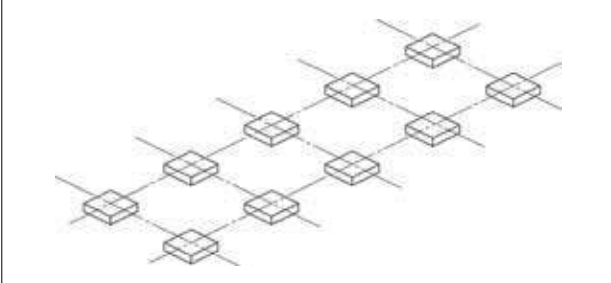




## Shorbrace System Assembly

### Step 1

Fixe concrete blocks on already mark location.



### Step 2

mark locations of solid base jack on top of concrete blocks.  
Position solid base jack on already marked point.



### Step 3

Position first shorbrace frame at first solid base jack.



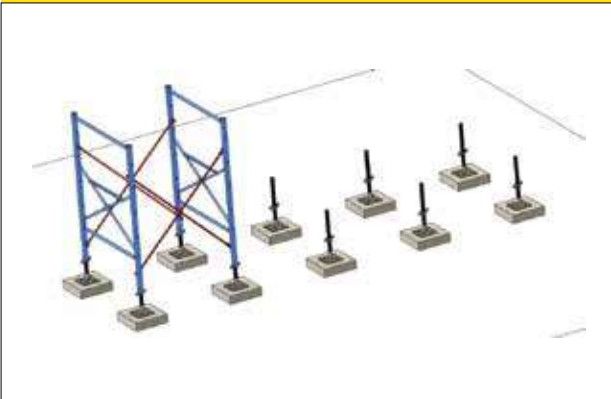
### Step 4

Position the next shorbrace frame at next solid base jack.



### Step 5

Install second cross brace between shorbrace frames.



### Step 6

Build to up next floor of shorbrace and fixing it by using spigot and rivet pin.



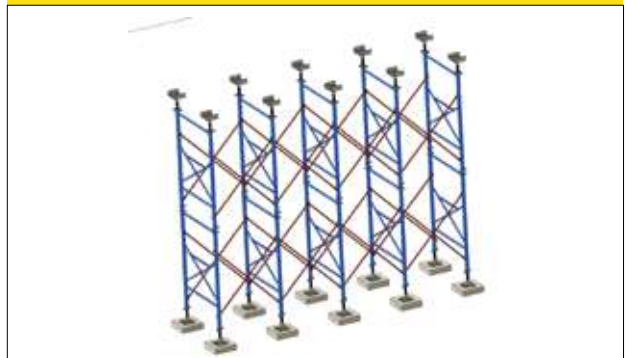
### Step 7

Install cross braces between shorbrace frames.



### Step 8

Install two solid u-head jack for each frame.







## Shorbrace System - Casing Assembly

### Step 1

connect and alignment soldiers to each other by using soldier splice and rivet pin to obtain the required length.



### Step 2

position corner splices to obtain the inclined soldier wall.



### Step 3

Connect soldiers and obtain the required inclined angle by using push pull props.



### Step 4

Position corner splices to soldiers to obtain the other inclined wall.



### Step 5

Position & Connect Soldiers by using push pull prop



### Step 6

Install H20 beams and fixing it to soldiers by using H20 clamp.

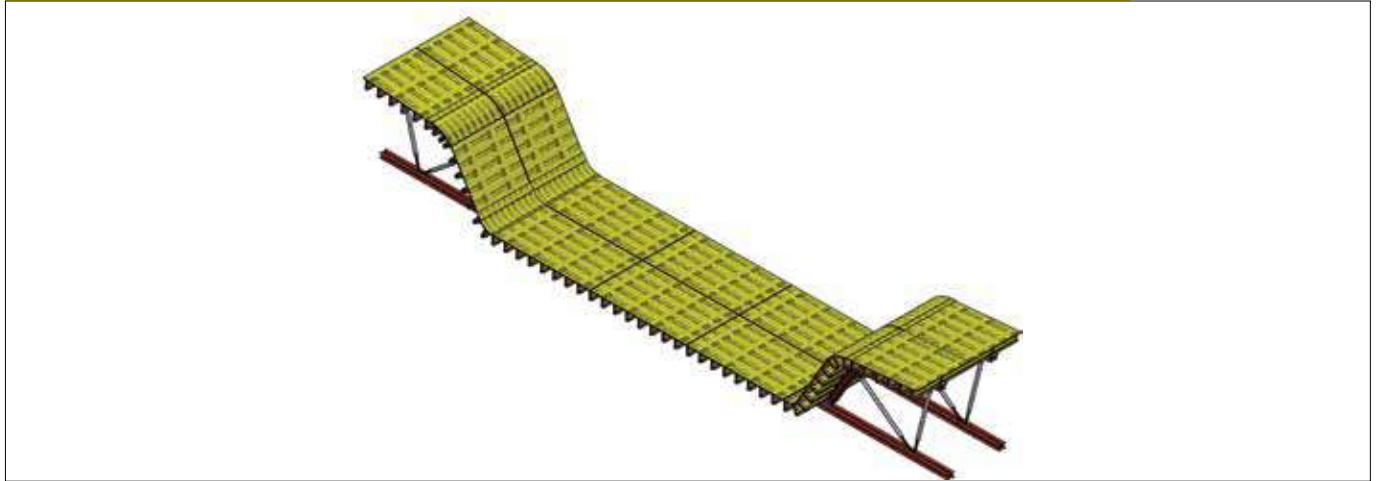




## Shorbrace System - Casing Assembly

### Step 7

Install plywood to obtain the final shape of casing of bridge.



Overview after install plywood on shape



Segment can be lifted by using crane

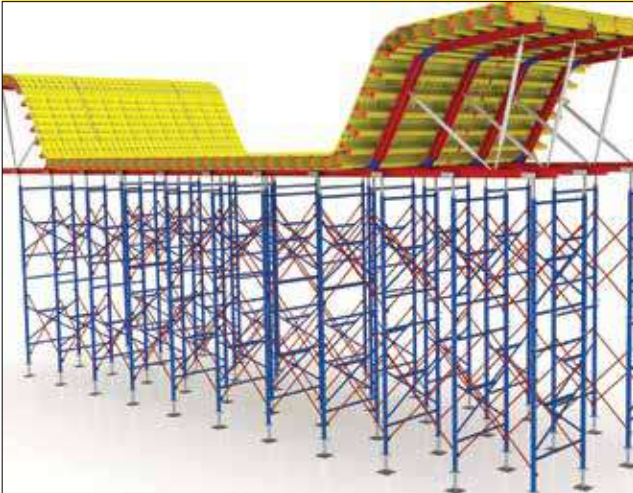




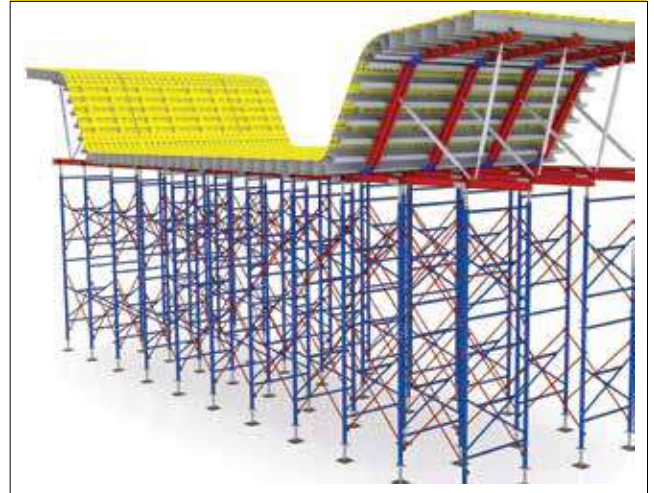
## Applications

### Applications for Bridges

Using H20 beam to form the bridge shape



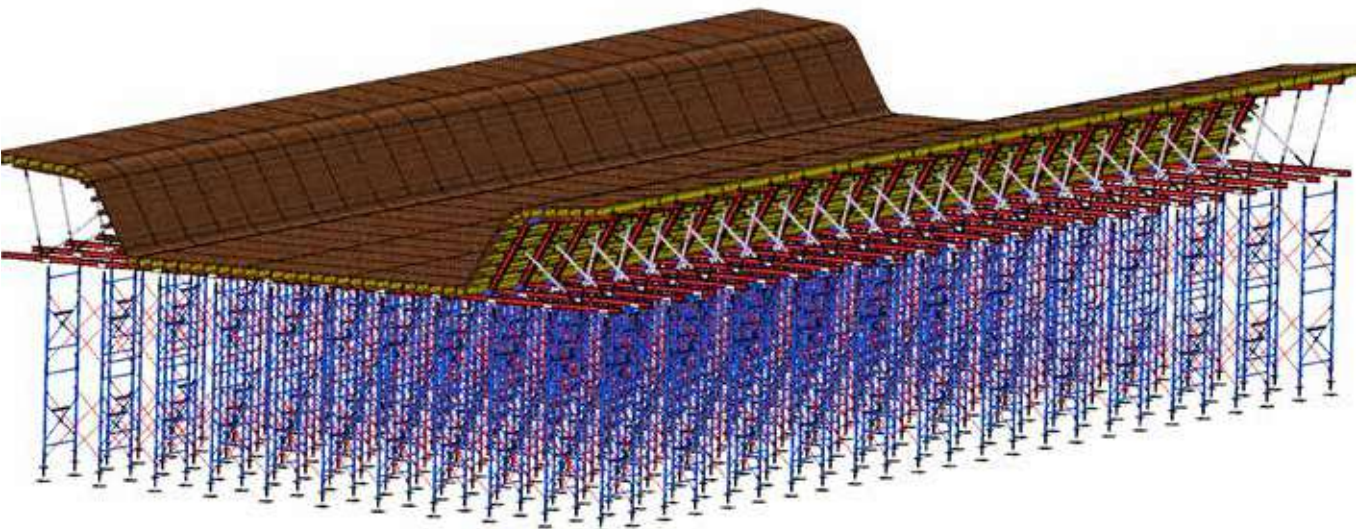
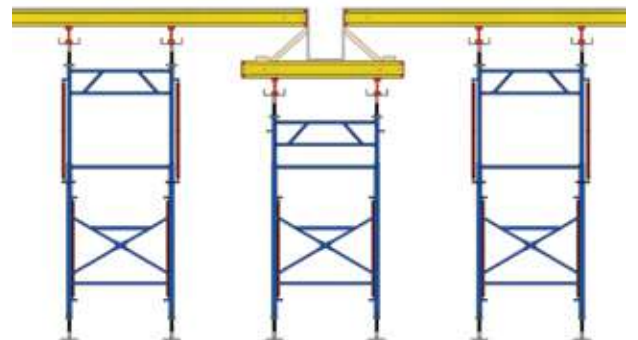
Using Aluminum Beam to form the bridge shape



Applications For Solid slab Formwork Section.



Plan Of Solid Slab Form Work Section







## Manar Alomran Projects



Shorbrace System with  
**Aluminum Beam**

Decking Main & Secondary







## Manar Alomran Projects



Shorbrace System with  
**Bridge System**





## Manar Alomran Projects





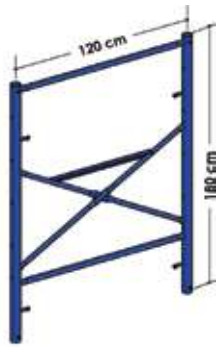


## Components



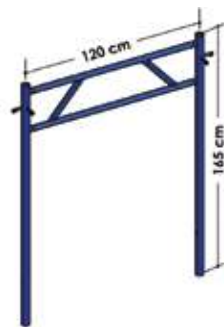
## Components

### Shorbrace Frame



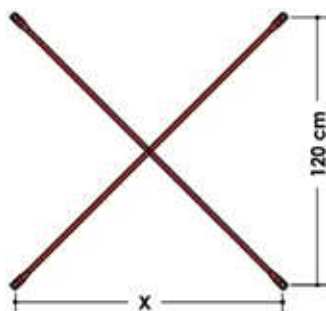
Description	Weight Kg	Code No
120cm x 180cm	28.50	B002010020060

### Telescopic Frame



Description	Weight Kg	Code No
120cm x 165cm	19.64	B002010020070

### Cross Brace



Description	Weight Kg	Code No
Cross Brace 0.9m	4.07	B002020020080
Cross Brace 1.2m	4.57	B002020020070
Cross Brace 1.5m	5.15	B002020020060
Cross Brace 1.8m	5.77	B002020020050
Cross Brace 2.1m	6.43	B002020020040





## Components

### Shorbrace Connector



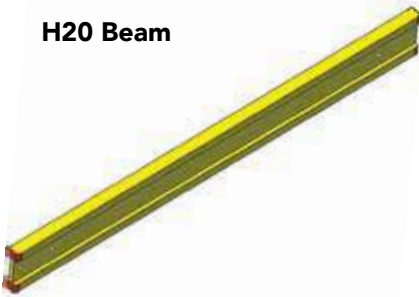
Description	Weight Kg	Code No
Shorbrace Connector	0.50	B002030020030

### Rivet Pin



Description	Weight Kg	Code No
Rivet Pin with Spring Clip	00.20	B305010000030

### H20 Beam



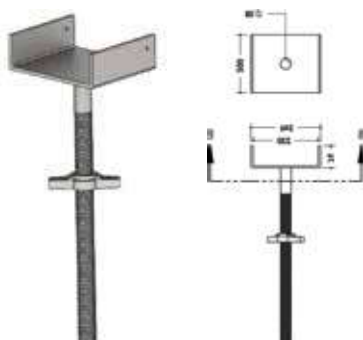
Description	Weight Kg	Code No
L = 1900mm	8.74	B201020001900
L = 2450mm	11.27	B201020004500
L = 2900mm	13.34	B201020002900
L = 3900mm	17.94	B201020003900
L = 4900mm	22.54	B201020004900
L = 5900mm	27.14	B201020005900

### Adj. Base Jack Solid



Description	Weight Kg	Code No
Adj. Base Jack Solid 34 mm - Heavy	7.48	B007020080030

### Adj. U-Head jack solid



Description	Weight Kg	Code No
Adj. U-Head jack solid 34 mm	7.82	B007020080040



## Components

### Shorbrace Coupler



Description	Weight Kg	Code No
Shorbrace Coupler	1.59	B002030020020

### Forged Double Coupler



Description	Weight Kg	Code No
Ø 48.3 x Ø 60.2	0.92	B3010200000050

### Forged Swivel Coupler



Description	Weight Kg	Code No
Ø 48.3 x Ø 60.2	1.17	B3010200000030
Ø 60.2 x Ø 60.2	1.60	B3010200000040

### Pressed Double Coupler



Description	Weight Kg	Code No
Ø 48.3 x Ø 60.2	0.910	B3010200000090

### Pressed Swivel Coupler



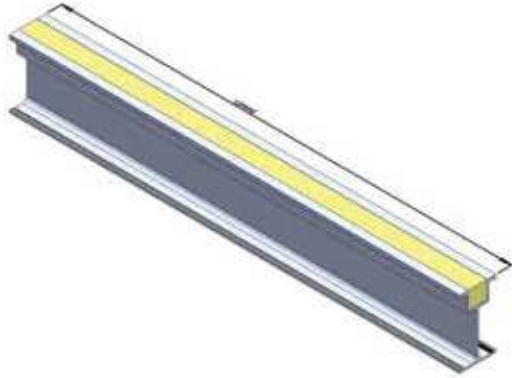
Description	Weight Kg	Code No
Ø 48.3 x Ø 60.2	1.5	B3010200000070





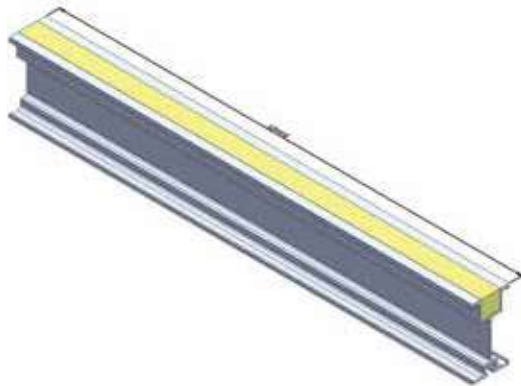
## Components

### Aluminum Beam Single Web



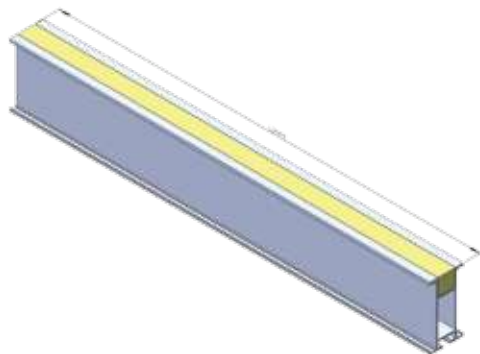
Description	Weight Kg	Code No
A.B.S 1000 mm	3.2	B402000010000
A.B.S 2000 mm	6.25	B402000020000
A.B.S 3000 mm	9.78	B402000030000
A.B.S 4000 mm	13.04	B402000040000
A.B.S 5000 mm	16.30	B402000050000

### Aluminum Beam Heavy



Description	Weight Kg	Code No
A.B.H 1000 mm	4.25	B402000010000
A.B.H 2000 mm	8.50	B402000020000
A.B.H 3000 mm	12.75	B402000030000
A.B.H 4000 mm	17.00	B402000040000
A.B.H 5000 mm	21.25	B402000050000

### Aluminum Beam Double Web



Description	Weight Kg	Code No
A.B.D 1000 mm	4.49	B40300001000
A.B.D 2000 mm	8.98	B40300002000
A.B.D 3000 mm	13.47	B40300003000
A.B.D 4000 mm	17.96	B40300004000
A.B.D 5000 mm	22.45	B40300005000



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## Manar Alomran Formwork



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Manar Ring Lock System



Manar Shorbrace System



Manar Table System



Manar Profex System



Manar Profemax System



Manar Circular Column System



Manar Variform System



Manar Steel Waler System



Manar Bridge Table Form System



Manar Steel Panel System

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