Scaffolding Master for scaffolding & supplies

MASTERSCAF

Formwork

H20 & Walers

for walls & columns

Durable | Cost Effective | Time Saver | Safe

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Ver. 2023

H20 & Waler

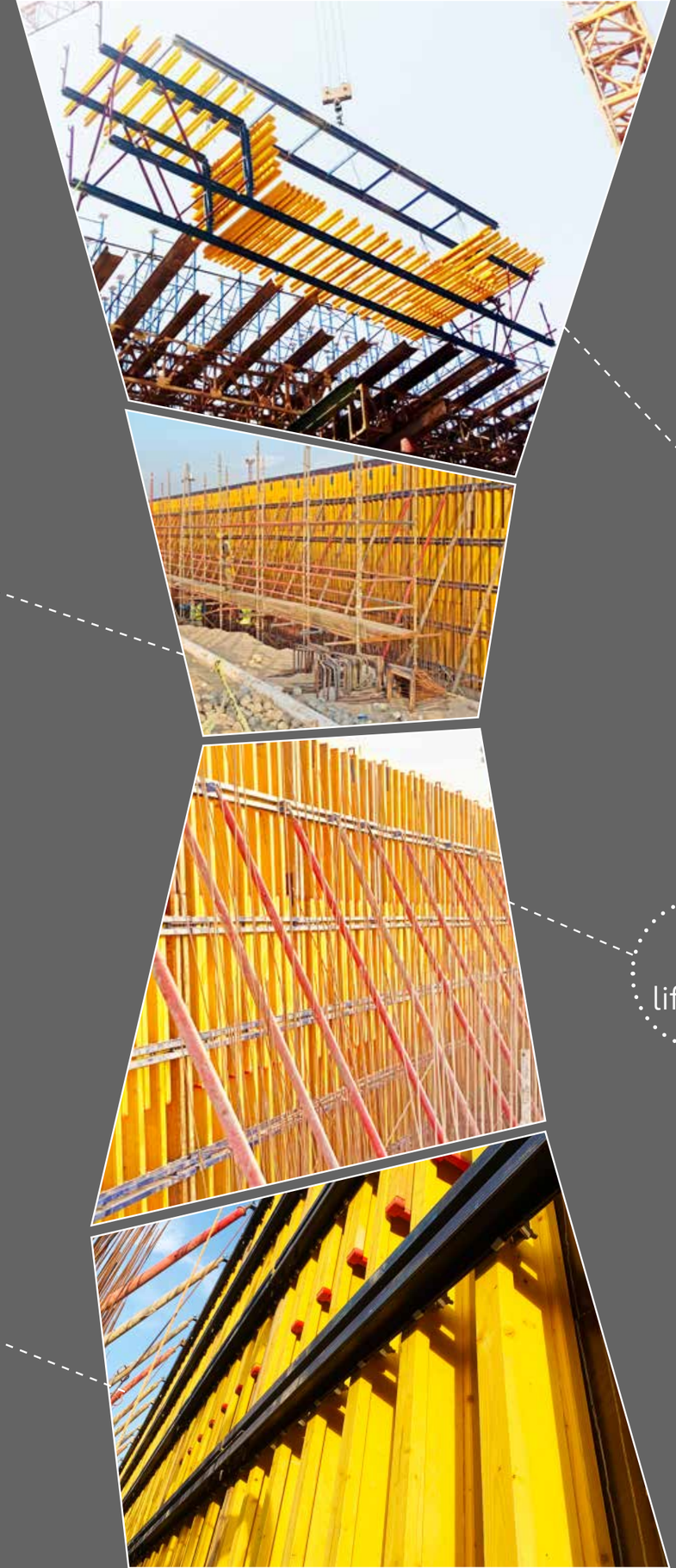
for walls & columns

For columns

For walls

Econimic

long lifespan



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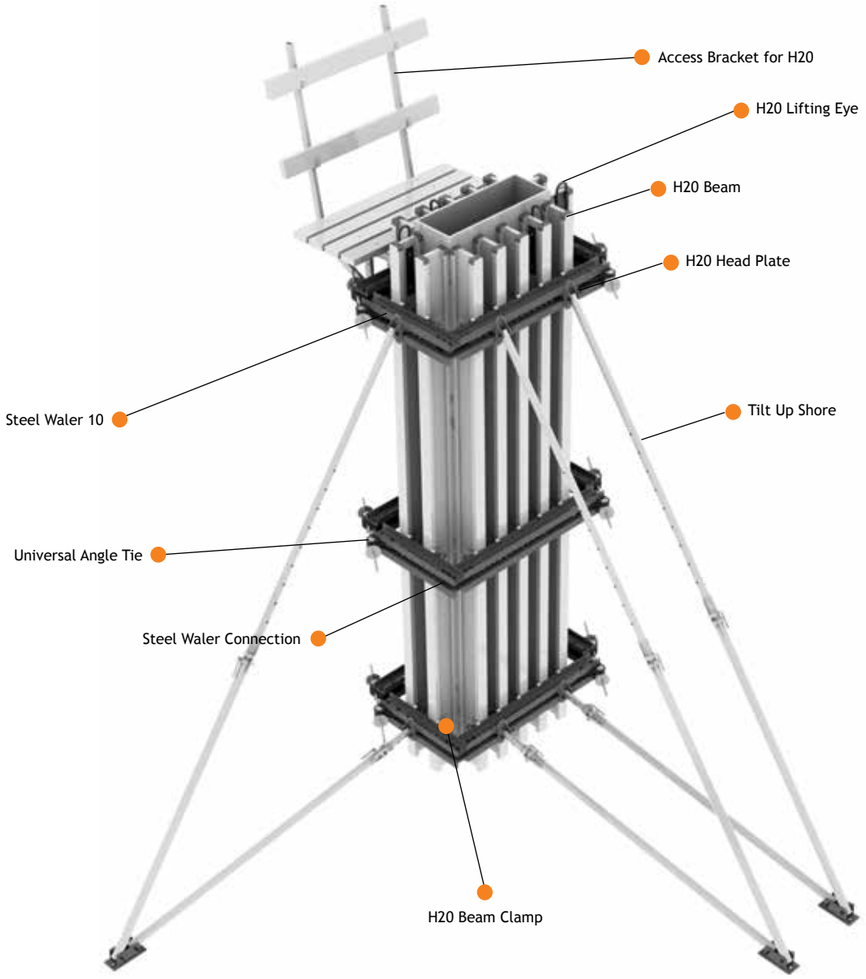
WELCOME

H20 & Waler

Overview for Column

H20 & Steel Waler System for Column

This system is being done to complete the process of molding the structure of the columns of different heights.
And the system is illustrated in this drawing three-dimensional



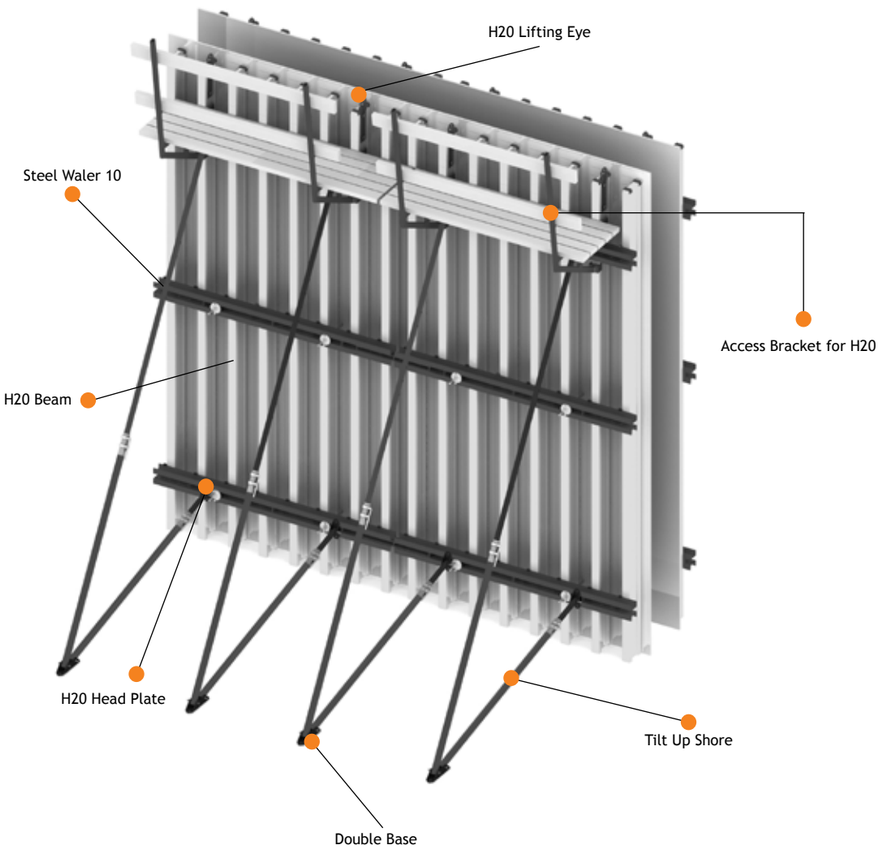
Cost Effective Safe Durable

H20 & Waler

Overview for wall

H20 & Steel Waler System for wall

This system is being done to complete the process of molding the structure of the walls of different heights.
And the system is illustrated in this drawing three-dimensional



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H20 & Waler

Introductions

Steel waler & H20

Steel Waler Formwork System Is A Flexible System To Meet Many Types Of Tasks. It Is Designed To Increase Efficiency , And Save Time Through The Following :

Max Concrete Pressure — The System Can Support Up To 80Kn/M2 Where The Spacing Between System Elements Depend On Concrete Pressure.

Concrete Surface — Ability To Choose Form Face Material To Meet Your Requirements (Smooth Fair - Faced Concrete - Wood - Textured Surfaces .....).

Wall & Column Dimensions — Ability To Choose From Many Textures To Meet Your Requirements (Smooth Fair - Faced Concrete - Wood Textured .....)

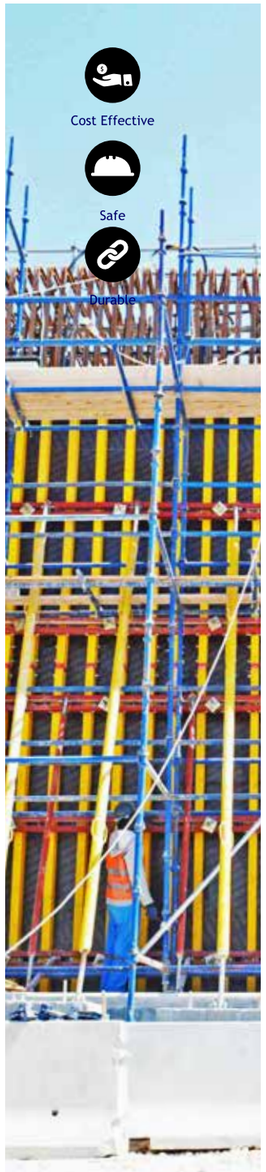
System Handled — The System Can Be Handled By Cranes, Which Increasing The System Efficiency Specially In Large Constriction Sites .

Accessories — Arrange Of Accessories Make Work On The Site More Efficient & Proficient.

Assembly — The Assembly And Disassembly Can Be Done Quickly & Simply.

Panel Connection — adjustment Panels Are Joint With Connectors And Rivet Pins.

H20 Or Aluminum Beams — For Higher Rigidity Systems The H20 Beam Is Recommended Lighter Systems The Aluminum Beam Is Recommended



H20 & Waler

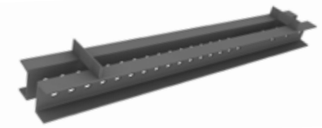
Standard Componants

Steel Waler 10 for Wall

Provide, support, tying locations in the panels, and alignment for the panel Wall steel waler connected with H20 & Aluminum Beams Pecial clamps

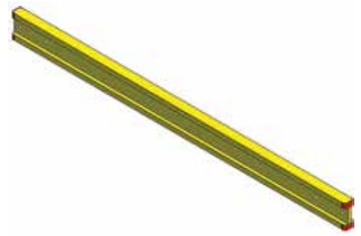
Avaliable in different lenths to meet design reauirments.

Steel Waler 10 for Column



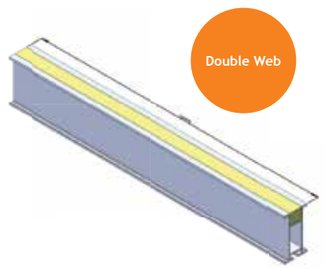
H20 Beams

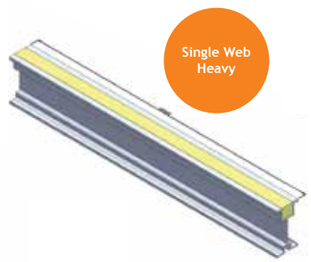
The H20 formwork timber beam is a solid - Beam used for concret fromwork construction .
The height of beam is 200 mm & available in different standard lengths .
The webs made of 3 Ply laminated solid wood panels ensuring use in all climate zone .
The chords are made of superior quality smoothly surfaced and slightly chamfered .



Aluminum Beam

Aluminum Beams combine the benefits of strength, lightness and easy handling with consistency ,versatility and exceptional durabilty .
Aluminum Beams manufactured from high grade alloy (ALLOY 6082) . Available in two standard section .





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H20 & Waler

Standard Componants

Tilt up shores

Used for aligning and supporting against wind loads .

They are tension and compression resistant in picking up and diverting wind load.
Tilt up shore allows to have formwork perfectly vertical.

Tilt up shore can reach up to 4.8m formwork height.

Tilt Up Shores are available in different ranges to fit needed length and applied load.

Lift the inner tube to open or close the tube for specific needed length.

Push Pull Props

Used for aligning and supporting the formwork. They are tension and compression resistant in picking up and diverting wind load.
Push Pull Prop allows to have formwork perfectly vertical.
Push Pull Prop available with different standard ranges as shown in technical data.

Push Pull Props are available in different ranges to fit needed length and applied load.
Turn the tube clockwise or counter clockwise to open or close the spindle to a specific needed length.

Lifting Eye for H20 Beam

For setting upright, transporting and hitting formwork panels.
Bolted on to the webs of H20 Beams.

Universal Angle Tie

For clamping the corner panels together.
Using with tie rod for fixing outside corners with needed angle.
The angle range between tie rod and Steeel Waler from 23o to 64o.

H20 & Waler

Standard Componants

Steeel Waler Splices for H20 Beam

For Connecting to panel at position of the Steeel Waler, produces an aligned, compression and tension resistant tightening of the wall panels.

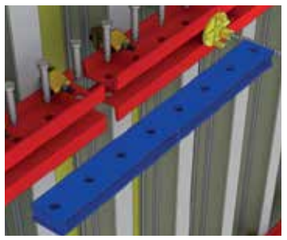
Panel splices joining to Steeel Waler using rivet pin fast and easily.

Lifting Eye for Aluminum Beam

For setting upright, transporting and hitting formwork panels.

Bolted on to the webs of Aluminum Beams.

Steeel Waler Splices for Aluminum Beam



For Connecting to panel at position of the Steeel Waler, produces an aligned, compression and tension resistant tightening of the wall panels.

Panel splices joining to Steeel Waler using rivet pin fast and easily.

H20 & Aluminum Beam Access Bracket

Used for construction of pouring and services platforms helping labors in erection and pouring.

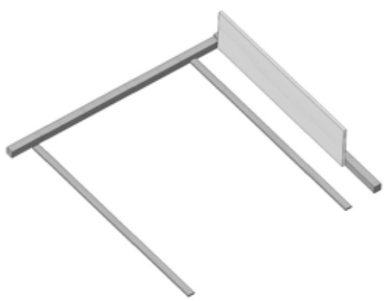
It is recommended to maintain the distance between two brackets not greater than 2.00 meters.

Max permitted live load 1.5 KN/m2

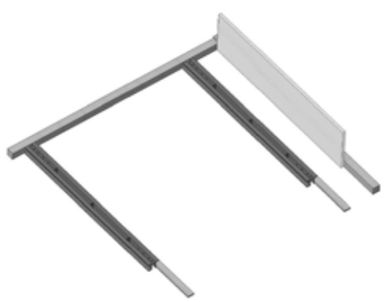
H20 & Waler

Erection Procedure

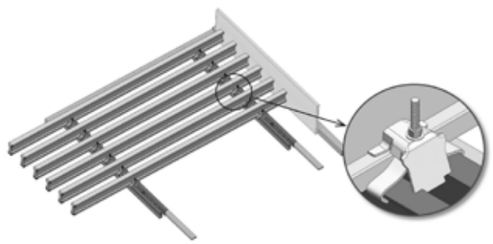
Step 1 Basic Assembly floor must be provided to assure the precise positioning of the soldiers & H20 beams .
Timber girder must be fixed on the floor to correspond to sioldier spacing



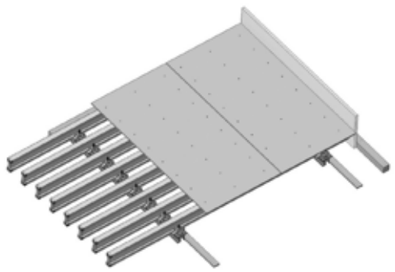
Step 2 Positioning the steel waller by timber girder spacing & leveld patters



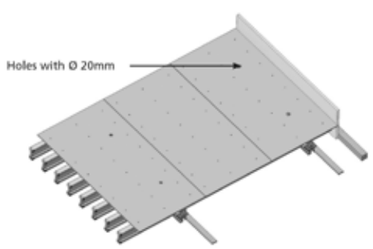
Step 3 Positioning the H20 beams in their positions & attaching the H20 beam to steel waller with the H20 beam Clamp



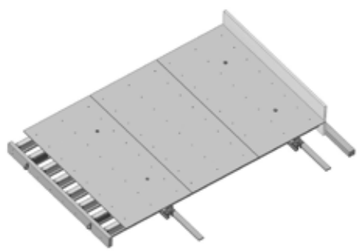
Step 4 Attaching the shuttering skin to H20 Beams with nails or screw nails .The H20 beams offer a firm base for nailing or screwing .



Step 5 Drilling tie holes in holes in their required positions by driller .



Step 6 bolting liffting eye into H20 & pressure bracing



H20 & Waler

Erection Procedure

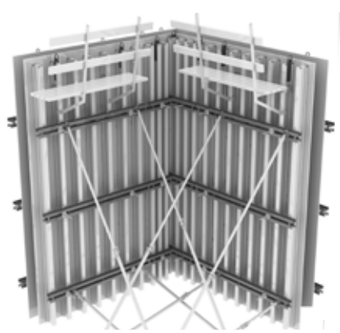
Step 7 Resetting panel by crane

Sketsh Application for Systems

Column Formwork

wall Formwork

Corner wall Formwork



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H20 & Waler

H20 & Waler Projects

Project Name : Abu Rawash Water Tank

Contractor : Orascom for contractors
Year : 2020
System Used : H20 & Waler for walls

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H20 & Waler Projects

Project Name : Administrative capital Water Tank

Contractor : Al.Fayed for Contracting
Year : 2021
System Used : H20 & Waler for walls

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H20 & Waler Projects

Project Name : Al.Galala Memorial Building

Contractor : ARGINZA for Contracting
Year : 2022
System Used : H20 & Waler for walls

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H20 & Waler

H20 & Waler Projects

Project Name : Kayan Water Tank

Consulting : DAR El.handasa for consulting
Year : 2022
System Used : H20 & Waler for walls

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H20 & Waler Projects

Project Name : Maspero Towers Project

Contractor : Orascom construction Co.
Year : 2022
System Used : H20 & Waler for curved walls

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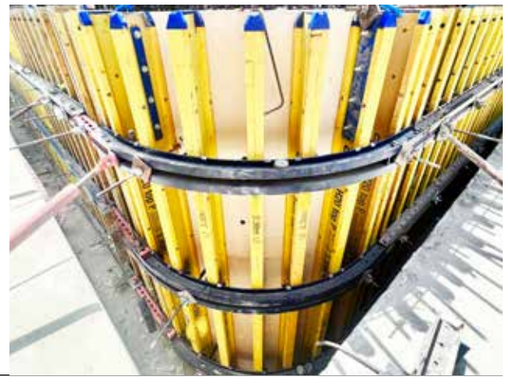

H20 & Waler

H20 & Waler Projects

Project Name : Banisuf Water Tanks

Consulting : DAR El.handasa for consulting
Year : 2022
System Used : H20 & Waler for walls

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Version **2023**

Master for scaffolding & supplies

Scaffolding

MASTERSCAF

Formwork

Head Office
New Cairo Business Park - Building 25K

Factory
Industrial Obour City Zone B,C No. 27001, cairo

Email
info@masterscaf.com

Website
www.masterscaf.com