



# WALL FORMWORK

## NEW PROFILE:

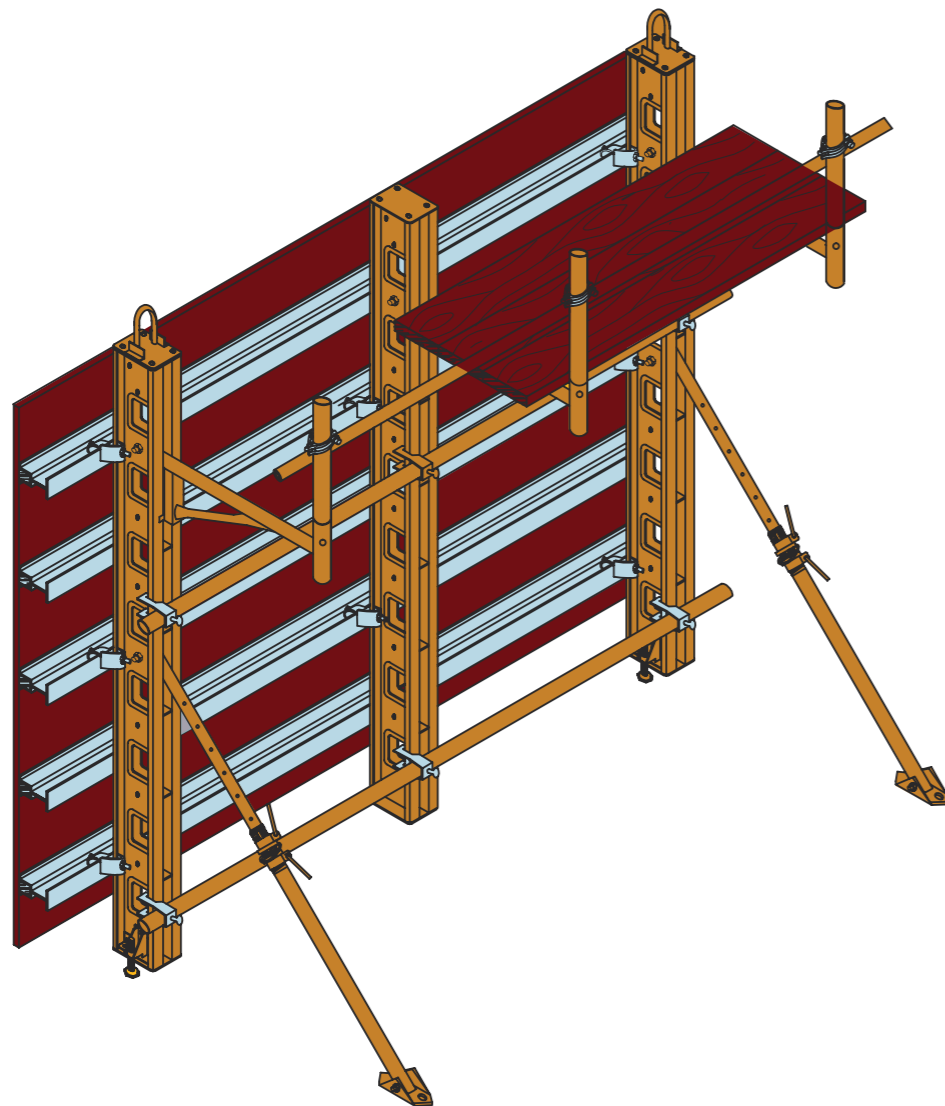
The new profile of Mark II Soldier, with its pattern of square shaped holes with stiffening ribs, is the result of an extensive analysis to determine the best balance between strength, stiffness & weight.

## WIDE RANGE:

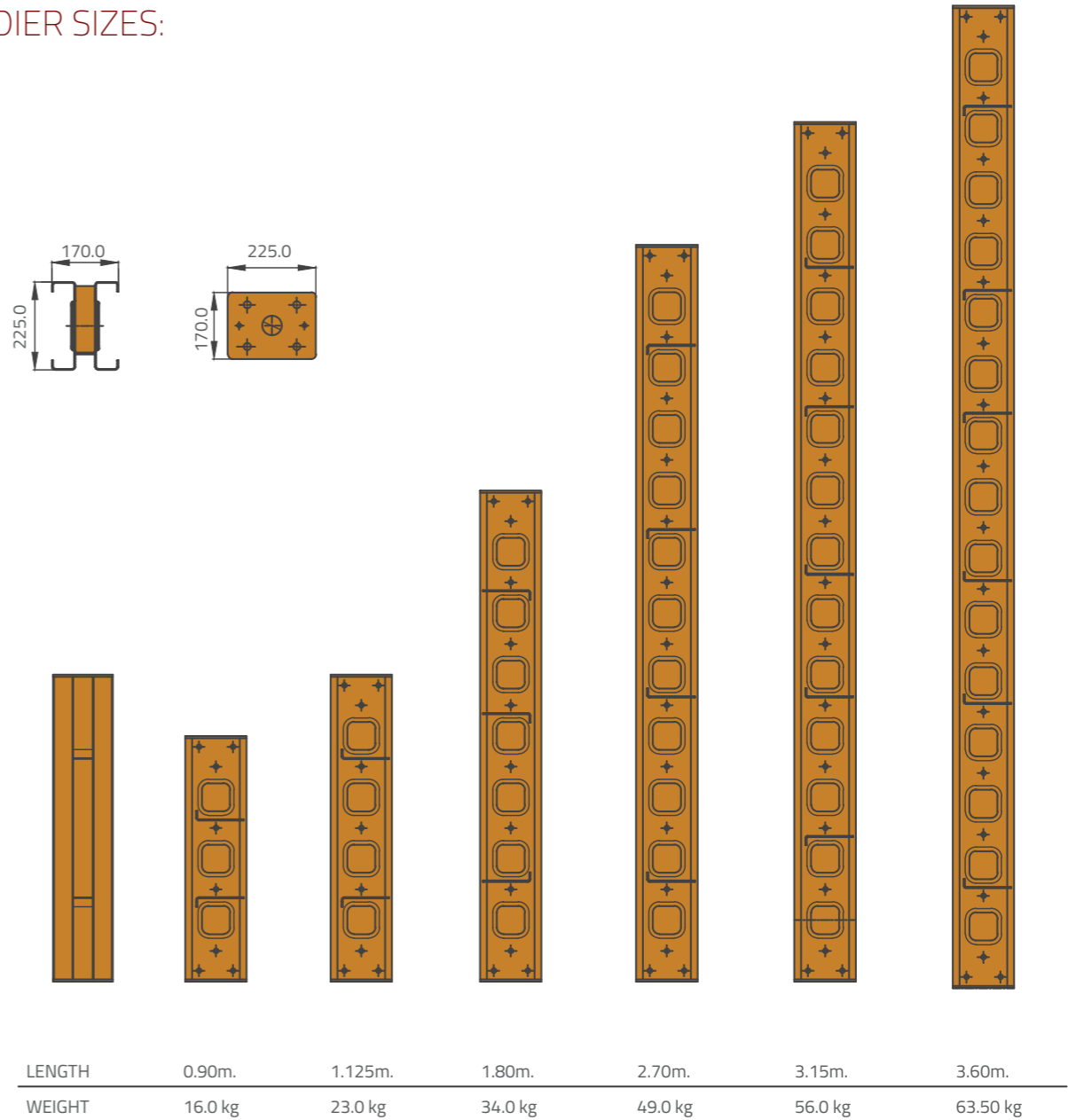
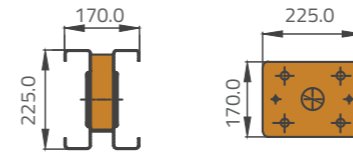
With a Detailed range of four length of soldiers and a choice of accessories, the contractor can find economical solutions to all his wall formwork problems.

## VERSATILITY:

When the soldier are combined with the K-6 aluminum waling beams even greater economies can be made. The greater strength of K6 allows soldier spacing and tie loads to be optimized. It also has the benefits of long life, light weight & fast assembly. All this factors combined to give the most versatile system for wall formwork.



## STANDARD MARK II SOLDIER SIZES:



## TECHNICAL PROPERTIES OF MK - II STEEL SOLDIER

|                                       |                          |
|---------------------------------------|--------------------------|
| Permissible bending stress ( perm )   | 14.24 kN/cm <sup>2</sup> |
| Permissible shear stress ( perm )     | 8.22 kN/cm <sup>2</sup>  |
| Max: Moment of Inertia ( Ixx )        | 1587.90 cm <sup>4</sup>  |
| Section Modulus ( Z )                 | 141.15 cm <sup>4</sup>   |
| Max: Permissible Bending Moment ( M ) | 20.10 kN-m               |
| Max: Permissible Shear Force ( Q )    | 91.20 kN                 |

Detailed catalogue of Wall Formwork available on request

## VERSATILE:

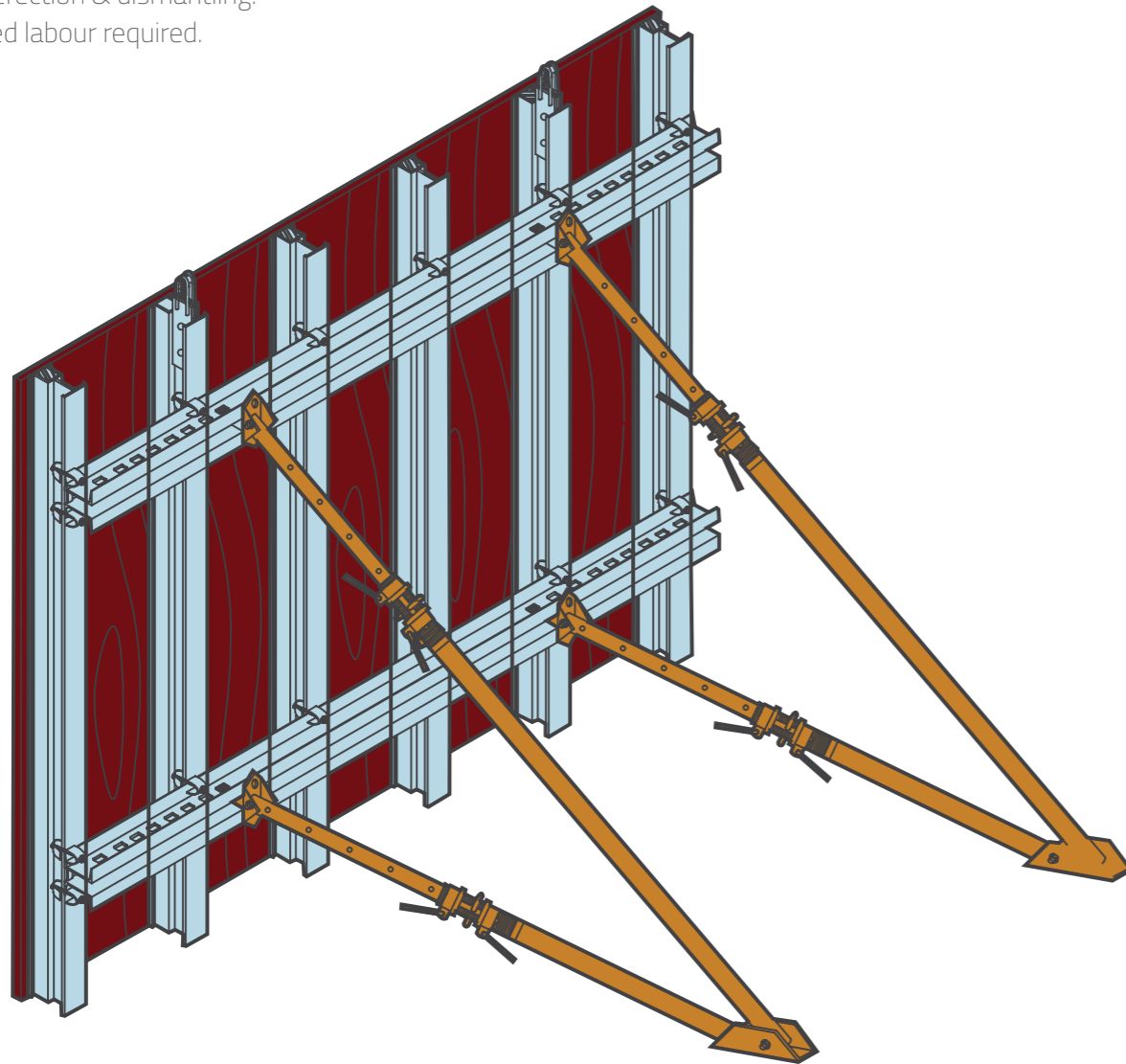
- Unlimited adjustment.
- For Walls, Beams & Heavy slab support.
- Complex shape possible.

## ECONOMICAL:

- Virtually eliminates timber.
- Robust, resistant to damage.
- Standard elements suit plywood sheet size without cutting.
- Elements easily transported and stored.
- Few standard components simplifies stock requirement.

## LABOUR SAVING:

- Aluminum beams speed up assembly.
- Simple erection & dismantling.
- No skilled labour required.



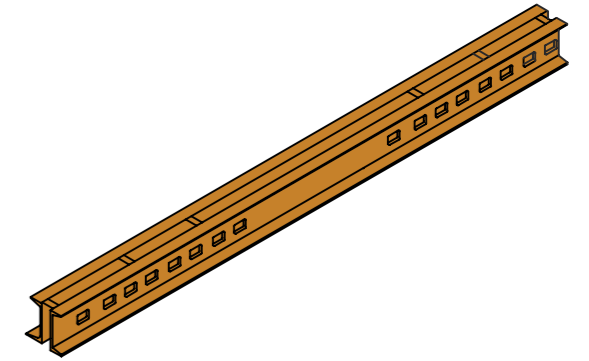
## STEEL WALING & ALUMINIUM BEAMS SYSTEM COMPONENTS:

### STEEL WALER:

It is a twin 100 x 50 mm channel section. Designed to make formwork elements using standard size plywood sheets. Simple, positive connections 110 kN tie load capacity. Available in following standard lengths. Weight 22 kg/m

| DESCRIPTION       | WEIGHT (kg) |
|-------------------|-------------|
| 1.17m Steel Waler | 25.75       |
| 2.3m Steel Waler  | 52.58       |
| 3.61m Steel Waler | 79.42       |
| 4.83m Steel Waler | 106.26      |

\* Other sizes are available on request



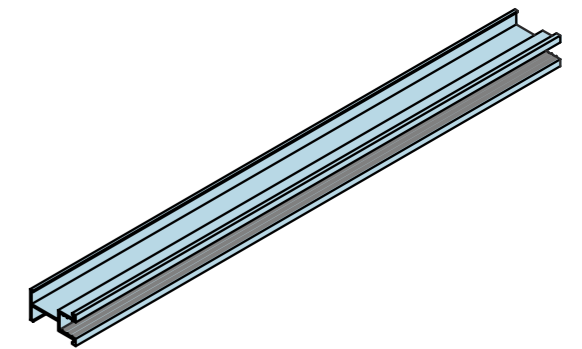
### ALUMINIUM BEAM:

Four different profile are available:

#### K-6 BEAM:

#### K-6X BEAM:

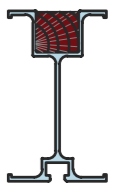
#### K-12 BEAM:



K-6



K-6X  
With Slot



K-12

### WEDGE

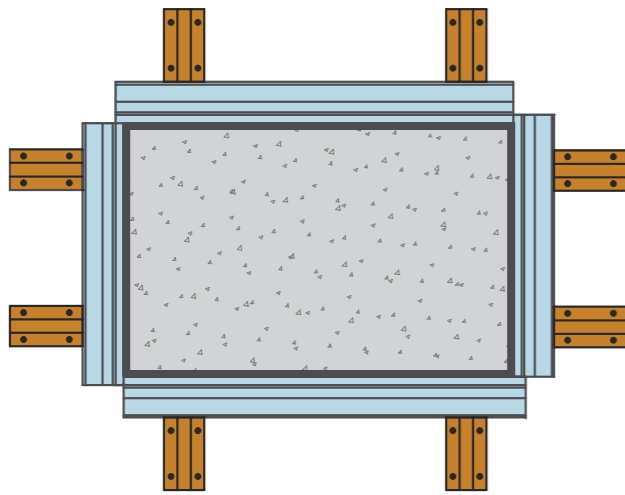
They are heavy duty drop forged wedge, which provides, high strength connections.

Weight: 1.0 Kg.

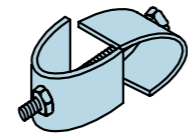


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COLUMN FORMWORK STEEL SOLDIER & ALUMINIUM BEAM SYSTEM:

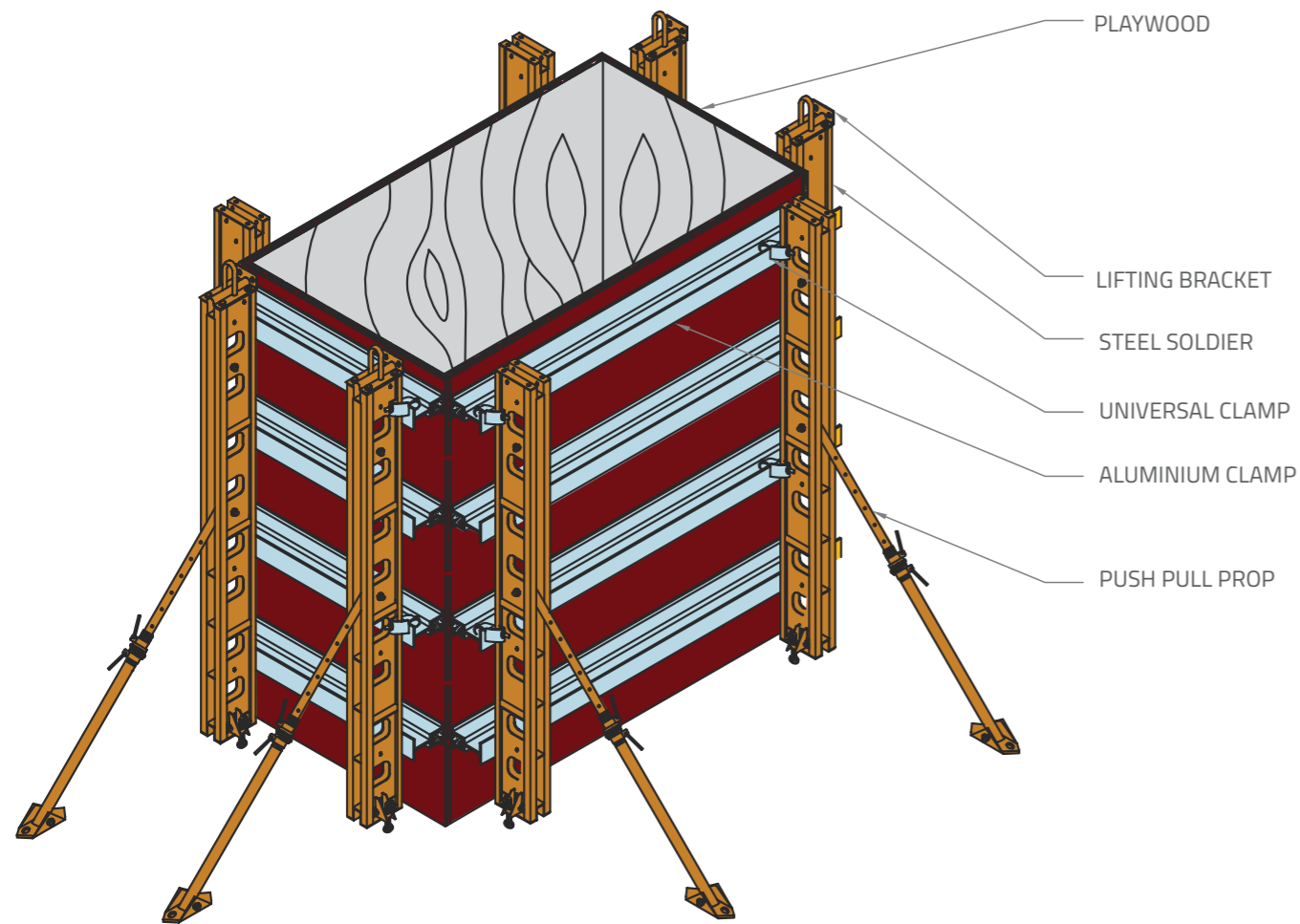


LAYOUT



UNIVERSAL CLAMP

COLUMN FORMWORK STEEL SOLDIER & ALUMINIUM BEAM SYSTEM:



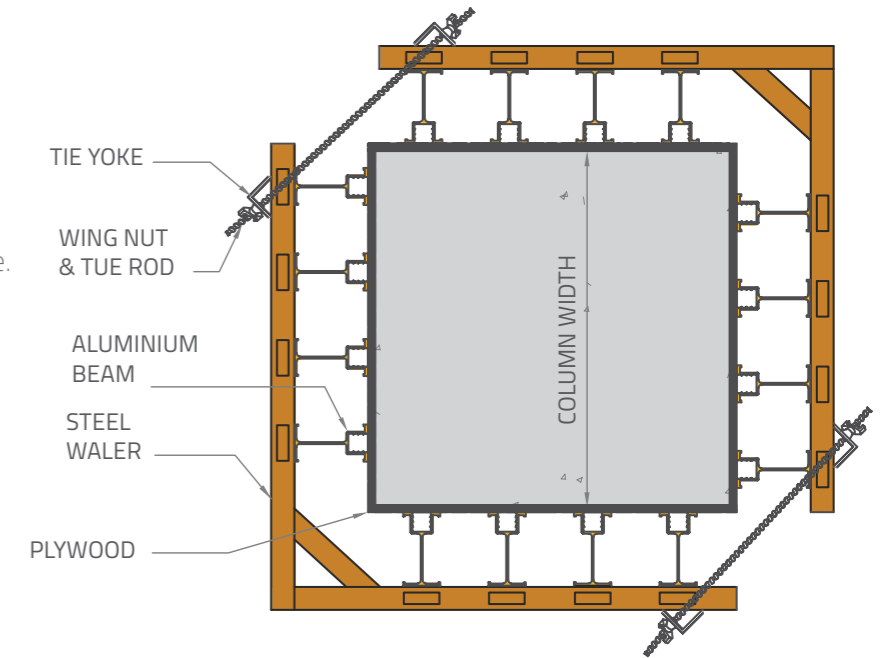
COLUMN FORMWORK STEEL WALER & ALUMINIUM BEAM SYSTEM:

Due to high strength and rigidity of the steel walers, and small overall formwork depth when compared to other methods, Steel waler and Aluminium beam system is the ideal solution to your column formwork needs, especially when repeated usage and crane building are required.

Forms can be quickly assembled to perfect right angle shape and lifted into position, where they can be connected together and plumbed in an matter of minutes.

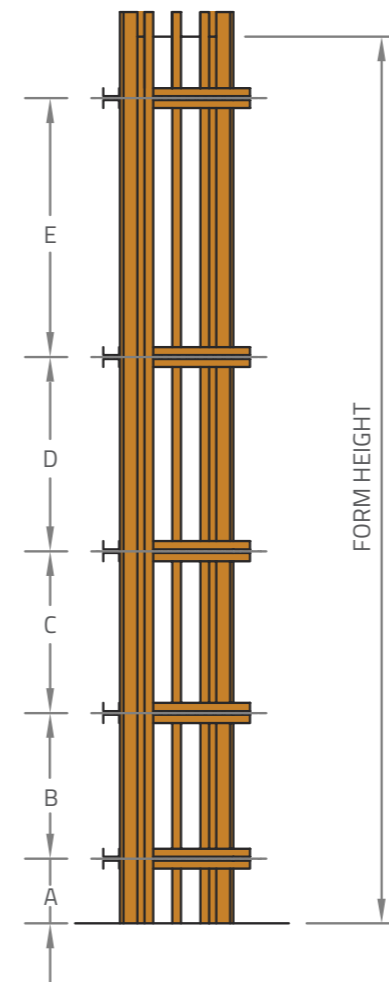
ADVANTAGE:

- 3 Sizes cover all requirements.
- Ensures Right - angle corners and Square columns.
- Allows standard crane handled column forms to be assembled for multiple use.



CALCULATIONS ARE BASED ON CONCRETE PRESSURE UP TO 100 KN/m<sup>2</sup>

| FORM HEIGHT (m) | COLUMN WALERS SPACING (m) |      |      |      |      |
|-----------------|---------------------------|------|------|------|------|
|                 | A                         | B    | C    | D    | E    |
| 2.00            | 0.30                      | 1.00 |      |      |      |
| 2.60            | 0.30                      | 1.60 |      |      |      |
| 3.00            | 0.40                      | 1.60 |      |      |      |
| 3.50            | 0.40                      | 1.10 | 1.20 |      |      |
| 4.00            | 0.40                      | 1.00 | 1.60 |      |      |
| 4.50            | 0.40                      | 1.00 | 1.20 | 1.20 |      |
| 5.20            | 0.40                      | 1.00 | 1.20 | 1.60 |      |
| 6.00            | 0.40                      | 0.80 | 1.00 | 1.40 | 1.40 |



| COLUMN WIDTH (mm)               | 200 | 300 | 400 | 500 | 600 | 700 | 800 |
|---------------------------------|-----|-----|-----|-----|-----|-----|-----|
| No. OF ALUMINIUM BEAMS PER FACE | 2   | 2   | 3   | 3   | 3   | 4   | 4   |

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