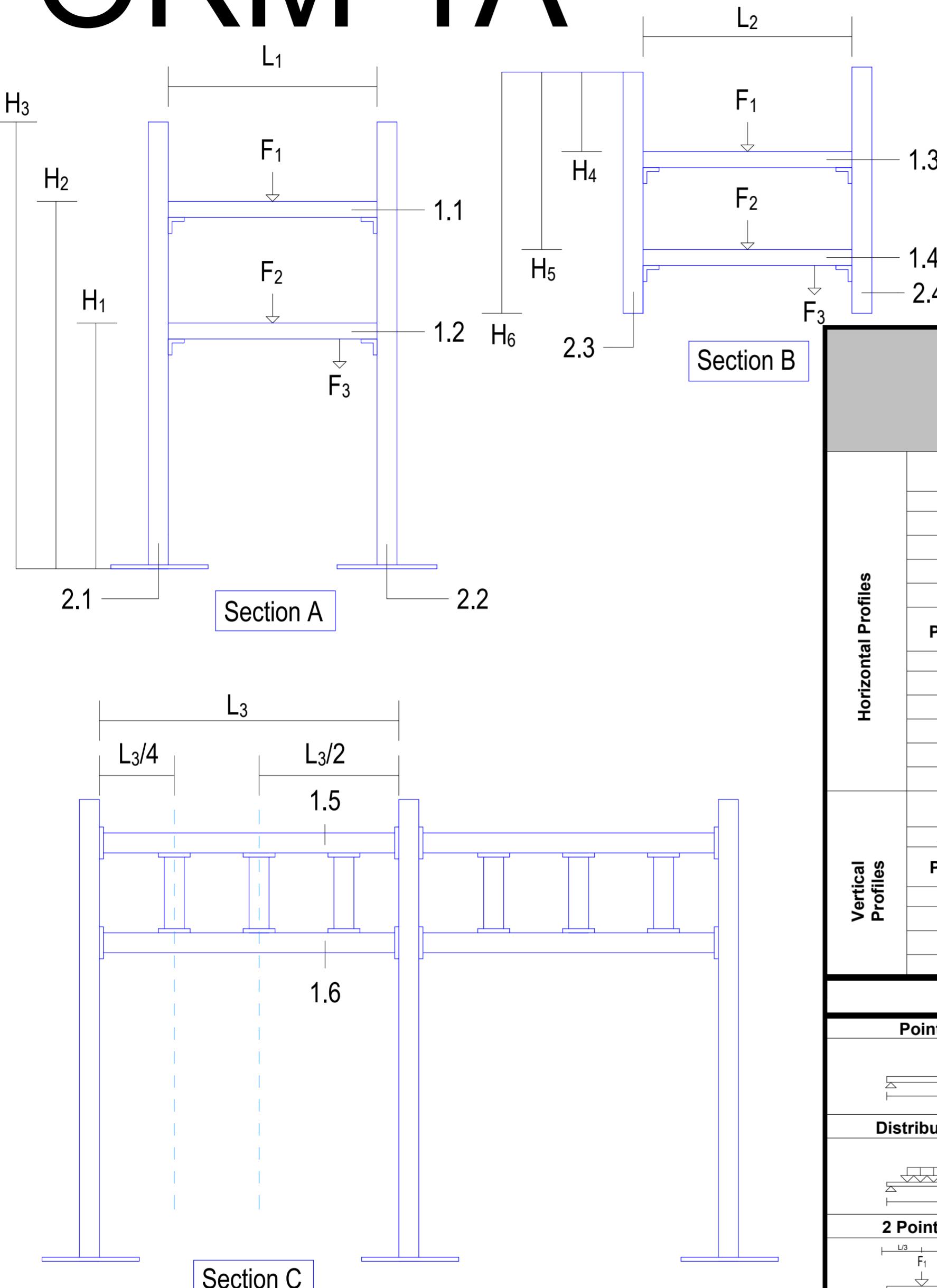


# FORM 1A



## NOTE

## FORM2A Production:

Defines primary and secondary support component sizes, types and part numbers.

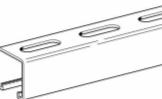
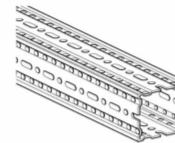
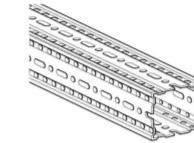
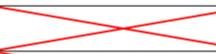
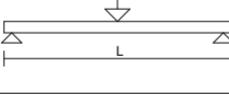
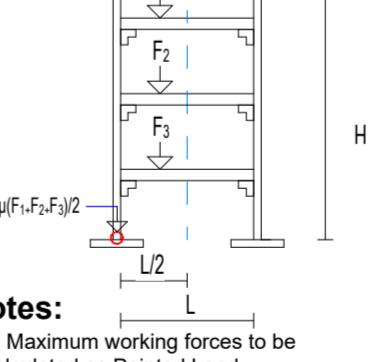
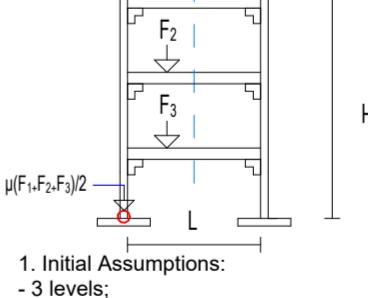
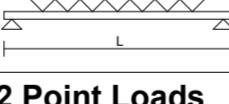
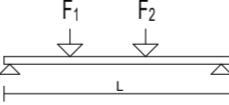
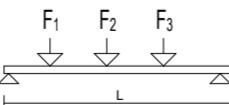
## Scope Exclusion:

Frame interface with the building structure is not included in this document.

For comprehensive guidelines and additional information, contact the project management team.

## DATA INPUT FORM

DATA INPUT - SIZING				DATA INPUT - LOADS					
Item	Un	Value	Validated	Item	Un	Value	Max Span (m)	Value (kN)	Validated
H <sub>1</sub>	mm	3590		F <sub>1</sub>	kN/m	0.4413	1.5	0.6620	
H <sub>2</sub>	mm	3990		F <sub>2</sub>	kN/m	0.4413	1.5	0.6620	
H <sub>3</sub>	mm	4512		F <sub>3</sub>	kN/m	0.1961	1.5	0.2942	
H <sub>4</sub>	mm	157							
H <sub>5</sub>	mm	557							
H <sub>6</sub>	mm	742							
L <sub>1</sub>	mm	742							
L <sub>2</sub>	mm	742							
L <sub>3</sub>	mm	6000							

Type:	Rod	Pressix CC 41	siFramo 80/30	siFramo 80	siFramo 100	
						
Horizontal Profiles	$L_{max}$ (mm)	Cut Length (mm)	Max. Loads (kN)			
	600	593	7.29	47.2	83.29	251.79
	750	742	4.67	30.20	53.30	161.15
	1000	990	2.62	16.99	29.98	90.64
	1200	1189	1.82	11.80	20.82	62.95
	6000	6000	0.07	0.47	0.83	2.51
	Profile ID	Formula	Profile Selection			
	1.1	$F_1$				
	1.2	$F_2+F_3$				
	1.3	$F_1$				
	1.4	$F_2+F_3$				
	1.5	$F_1+F_2+F_3$				
	1.6	$F_1+F_2+F_3$				
Vertical Profiles	$H_{max}$ (mm)	Max. Loads (kN)				
	All Sizes					
	Profile ID	Formula	Profile Selection			
	2.1					
	2.2					
	2.3					
	2.4					
		$F_1+F_2+F_3$				
Horizontal Loads Calculation Method			Vertical Loads Calculation Method			
<b>Point Load</b> 	<b>Example:</b> For a horizontal beam with a Length of 1000mm, the Maximum Loads supported for the different configuration of Loads are the following: <ul style="list-style-type: none"><li>- Single Point Load - 12.06 kN</li><li>- Distributed Load - 24.13 kN/m</li><li>- 2 Point Load - 18.10 kN</li><li>- 3 Point Load - 18.09 kN</li></ul>		<b>Load Distribution Assumption</b> 	<b>Example:</b>  <b>Notes:</b> <ol style="list-style-type: none"><li>1. Maximum working forces to be calculated as Pointed Load</li><li>2. The worst scenario should consider that the forces are off-center of the horizontal profiles and that will cause a bigger effort in the critical point of the vertical profile</li><li>3. <math>\mu(F_1+F_2+F_n)/2 \leq F_{max}</math> <math>\mu</math> is the coefficient that assumes that the forces are not centered, concentrating more efforts on one side of the structure</li></ol>		
<b>Distributed Load</b> 						
<b>2 Point Loads</b> 						
<b>3 Point Loads</b> 						

## OVERVIEW

MC Prefab is a collaborative joint venture between CTS, MECWIDE, and BIMMS. The primary objective of this partnership is to streamline the production of Mechanical, Electrical, and Plumbing (MEP) support structures.

To achieve standardization and optimization in support production, installation, and to minimize material waste, a comprehensive catalog of solutions has been developed. This catalog defines all support solutions along with their respective variables.

## Process Stages:

The overall process of MEP support structure production and installation is divided into three distinct stages:

- 1-Preparation
- 2-Production
- 3-Installation

3. Installation  
Each stage requires specific documentation, outlined as follows:

## **Form1A: Base Specification for Support Solution Definition**

**Form2A:** Fabrication Drawing  
**Form3A:** Installation Drawing  
These documents ensure the standardization and efficiency of the entire process, from initial preparation through to final installation.

For any further details or clarifications, please refer to the MC Prefab documentation guidelines or contact the project management team.

## Naming Convention

```
graph TD; A[DC.FWA.COR.1.1-1A] --> B[Document Type]; A --> C[Support Type]; A --> D[Building Area Type]; A --> E[Project Standard Type]; A --> F[Project Type];
```

PO#	Date	Description	Sign	Ver.
P02	03/12/2024	Issued For Information	GJ	J
P01	08/11/2024	Issued For Information	GJ	J
Rev.	Date	Description	Sign	Ver.

DESIGN & BUILD PARTNERS:



**CTS** Nordic



**BIMMS**  
integrated engineering

DRAWING NAME:

DRAWING STATUS: <b>Issued For Information</b>		SCALE:	STATUS
DATE CREATED: <b>08/11/2024</b>	LAST REV. DATE: <b>03/12/2024</b>	SIGNED: <b>GJ</b>	CONTR: <b>JT</b>
DRAWING NUMBER: <b>FIN3005-BMS-XX-XX-DR-J-75111</b>		FORMAT: <b>A2</b>	REVISI <b>P02</b>