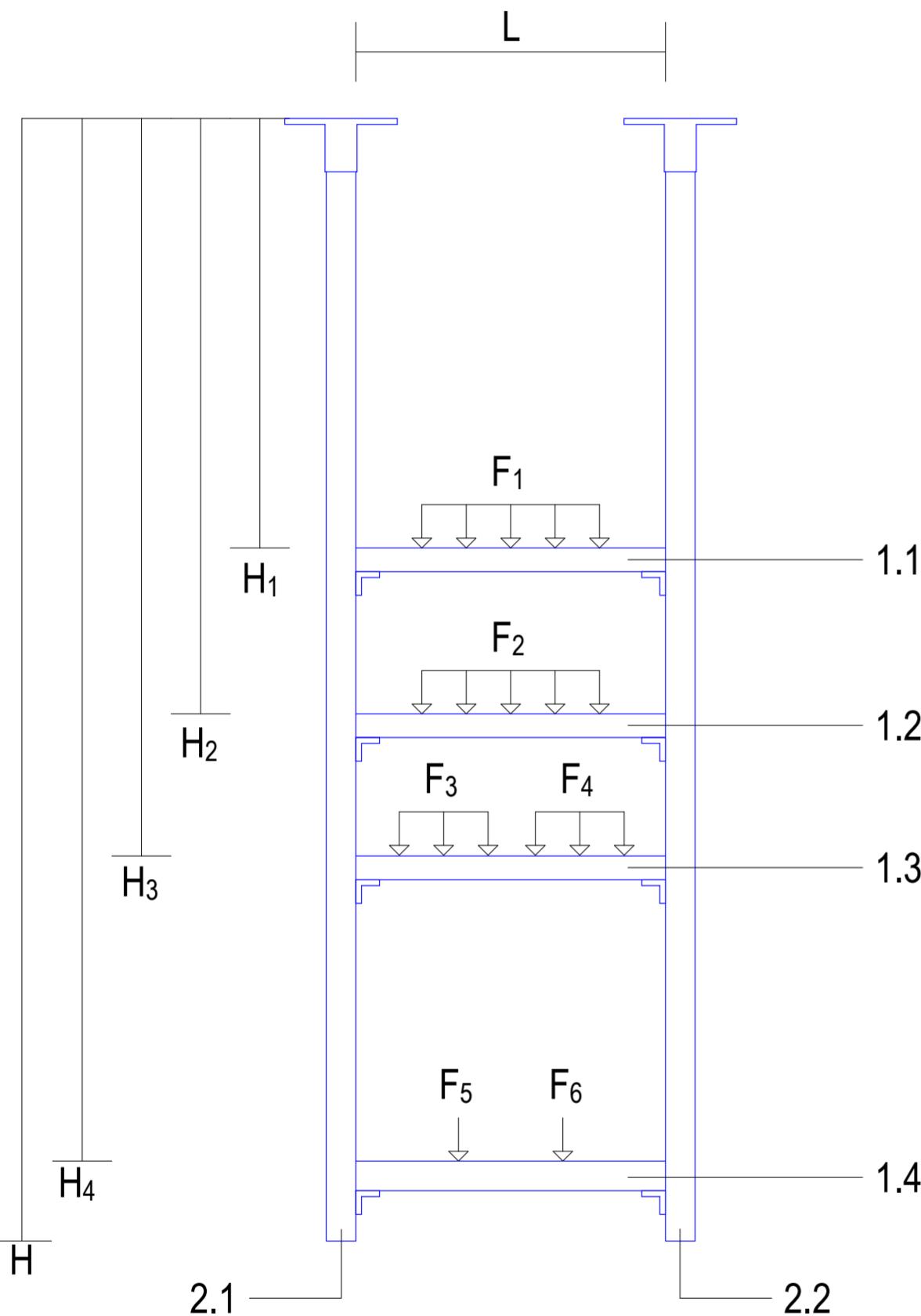
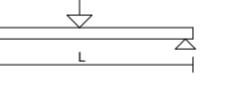
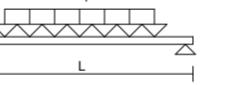
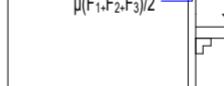
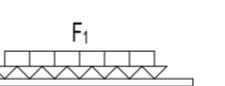
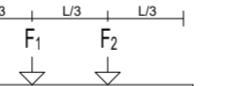
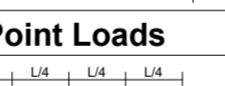
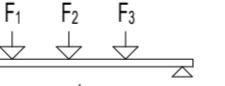
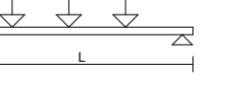
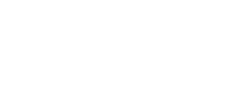


FORM 1A



DATA INPUT FORM

DATA INPUT - SIZING				DATA INPUT - LOADS					
Item	Un	Value	Validated	Item	Un	Value	Max Span (m)	Value (kN)	Validated
H ₁	mm	1570		F ₁	kN/m	0.0981	1.5	0.14715	
H ₂	mm	1870		F ₂	kN/m	0.0981	1.5	0.14715	
H ₃	mm	2170		F ₃	kN/m	0.1961	1.5	0.29415	
H ₄	mm	2740		F ₄	kN/m	0.1961	1.5	0.29415	
H	mm	2996		F ₅	kN/m	1.2000	3.0	3.6000	
L	mm	742		F ₆	kN/m	1.2000	3.0	3.6000	

		Type:	Rod	Pressix CC 41	siFramo 80/30	siFramo 80	siFramo 100
Horizontal Profiles	L _{max} (mm)	Cut Length (mm)	Max. Loads (kN)				
	500	493	10.50	67.97	119.94	362.58	
	600	593	7.29	47.20	83.29	251.79	
	750	742	4.67	30.21	53.31	161.15	
	1000	990	2.63	16.99	29.99	90.64	
	1200	1189	1.82	11.80	20.82	62.95	
Vertical Profiles	Profile ID	Formula	Profile Selection				
	1.1	F ₁	XX				
	1.2	F ₂	XX				
	1.3	F ₃ +F ₄	XX				
	1.4	F ₅ +F ₆	XX				
	H _{max} (mm)		Max. Loads (kN)				
All Sizes							
Horizontal Loads Calculation Method	Profile ID	Formula	Profile Selection				
	2.1	F ₁ +F ₂ +...+F ₆	XX				
	2.2		XX				
	Point Load			Example:			
				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"> - Single Point Load - 12.06 kN - Distributed Load - 24.13 kN/m - 2 Point Load - 18.10 kN - 3 Point Load - 18.09 kN 			
Vertical Loads Calculation Method	Distributed Load						
				Load Distribution Assumption			
				Example:			
							
				1. Initial Assumptions:			
				<ul style="list-style-type: none"> - 3 levels; - Loads Not Centered; - Coefficient $\mu = 1.2$; - Maximum axial resistance of the vertical profile: 20kN 			
Notes:				2. For this case:			
				$\mu(F_1+F_2+F_3)/2 \leq F_{max}$ $F_1+F_2+F_3 \leq (20 * 2)/1.2$ $F_1+F_2+F_3 \leq 33.33kN$			
				3. The user only needs to compare the sum of the Fn Load values with the supported values in the table and select the appropriate beam type.			
							
							
							

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.

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

Each stage requires specific documentation, outlined as follows:

Form1A: Base Specification for Support Solution Definition

Form2A: Fabrication Drawing

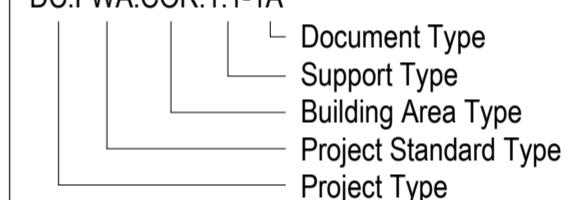
Form3A: Installation Drawing

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

DC.FWA.COR.1.1-1A



JOINT VENTURE:

MC Prefab Nordics

DESIGN & BUILD PARTNERS:

CTS Nordics

BIMMS
integrated engineering

DRAWING NAME:

DC.FWA.COR.2.1-1A

DRAWING STATUS:

Issued For Information

SCALE:

S2

DATE CREATED:

08/11/2024

LAST REV. DATE:

03/12/2024

SIGNED:

GJ

CONTROL:

JT

DRAWING NUMBER:

FIN3005-BMS-XX-XX-DR-J-12111

FORMAT:

A2

REVISION:

P02