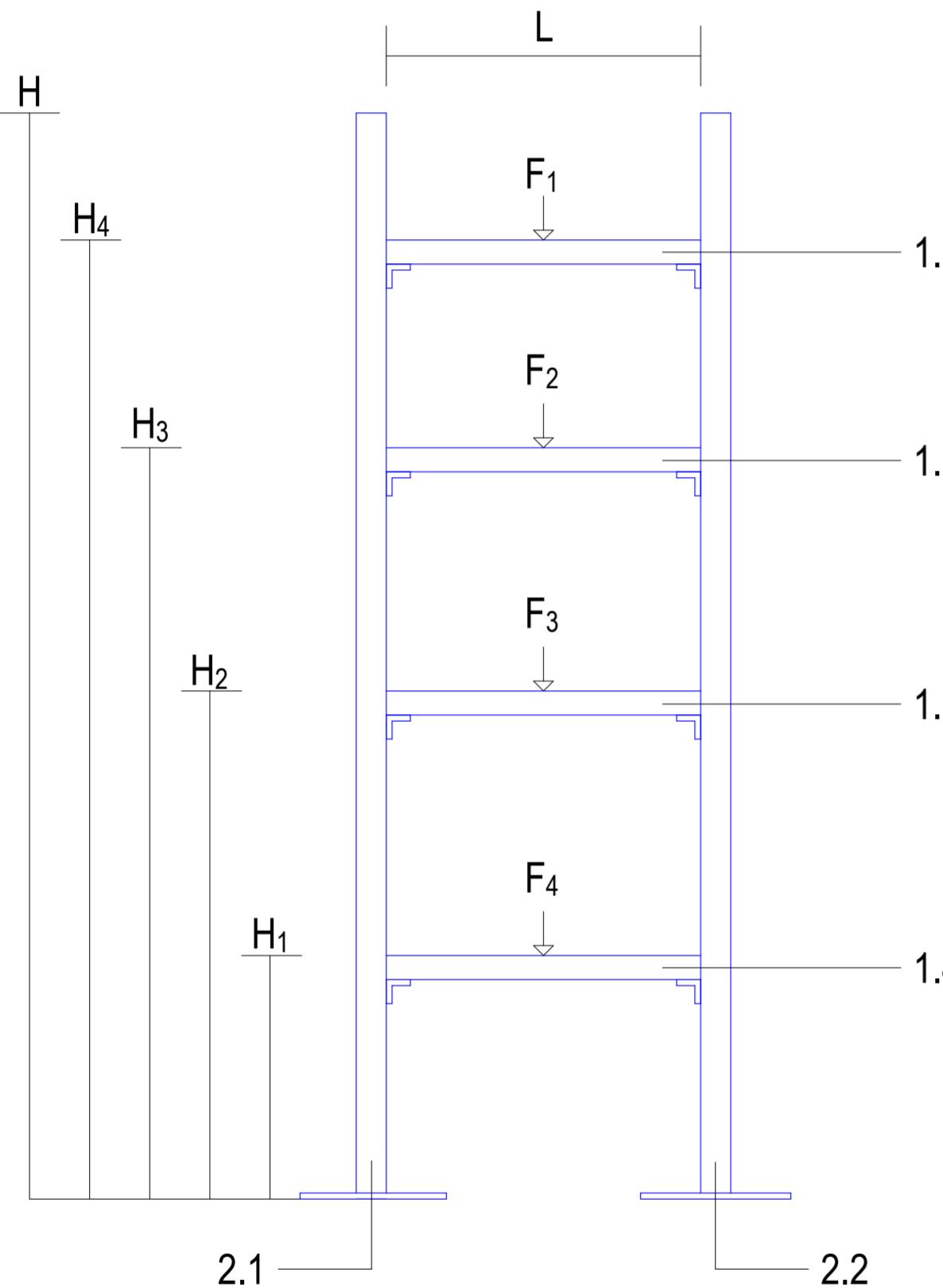


FORM 1A

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 | 698 | | F ₁ | kN/m | 2.6000 | 3.9 | 10.1400 | |
| H ₂ | mm | 1603 | | F ₂ | kN/m | 2.6000 | 3.9 | 10.1400 | |
| H ₃ | mm | 2548 | | F ₃ | kN/m | 1.2000 | 3.9 | 4.6800 | |
| H ₄ | mm | 3048 | | F ₄ | kN/m | 1.2000 | 3.9 | 4.6800 | |
| H | mm | 3512 | | | | | | | |
| L | mm | 593 | | | | | | | |



NOTE:

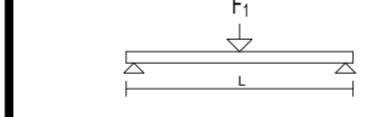
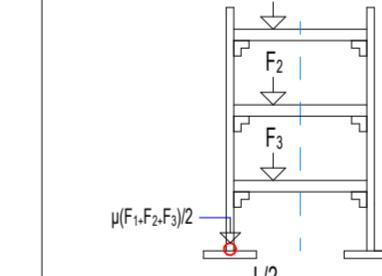
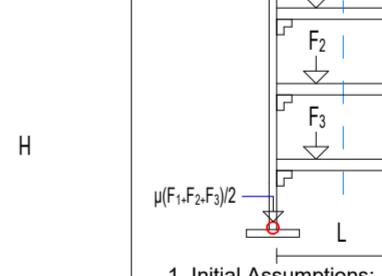
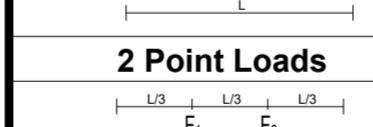
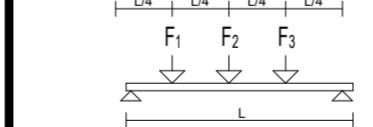
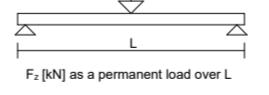
FORM2A Production:

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.

| Horizontal Profiles | Type: | Rod | Pressix CC 41 | siFramo 80/30 | siFramo 80 | siFramo 100 |
|---|--|---|---|---|------------|-------------|
| | L _{max} (mm) | Cut Length (mm) | Max. Loads (kN) | | | |
| 300 | 295 | | 29.17 | 188.8 | 333.17 | 1007.16 |
| 400 | 394 | | 16.41 | 106.2 | 187.41 | 566.52 |
| 500 | 493 | | 10.50 | 67.97 | 119.94 | 362.58 |
| 600 | 593 | | 7.29 | 47.2 | 83.29 | 251.79 |
| 750 | 742 | | 4.67 | 30.20 | 53.30 | 161.15 |
| 1000 | 990 | | 2.63 | 16.99 | 29.99 | 90.64 |
| Profile ID | Formula | Profile Selection | | | | |
| 1.1 | F ₁ | | | | | |
| 1.2 | F ₂ | | | | | |
| 1.3 | F ₃ | | | | | |
| 1.4 | F ₄ | | | | | |
| Vertical Profiles | H _{max} (mm) | Max. Loads (kN) | | | | |
| All Sizes | | | | | | |
| Profile ID | Formula | Profile Selection | | | | |
| 2.1 | F ₁ +F ₂ +F ₃ +F ₄ | | | | | |
| 2.2 | | | | | | |
| Horizontal Loads Calculation Method | | | Vertical Loads Calculation Method | | | |
| Point Load | Example: | Load Distribution Assumption | | | | |
|  | For a horizontal beam with a length of 1000mm, the maximum loads supported for the different configuration of loads are the following: |  |  | 1. Initial Assumptions: | | |
| Distributed Load | - Single Point Load - 12.06 kN - Distributed Load - 24.13 kN/m - 2 Point Load - 18.10 kN - 3 Point Load - 18.09 kN | | | - Loads Not Centered; - Coefficient $\mu = 1.2$; - Maximum axial resistance of the vertical profile: 20kN | | |
| 2 Point Loads | | | | 2. For this case: | | |
|  | | | | - $\mu(F_1+F_2)/2 \leq F_{max}$ - $F_1+F_2+F_3 \leq (20*2)/1.2$ - $F_1+F_2+F_3 \leq (20*2)/1.2$ - $F_1+F_2+F_3 \leq 33.33kN$ | | |
| 3 Point Loads | | | | 3. The user only needs to compare the sum of the F_n load values with the supported values in the table and select the appropriate beam type. | | |
|  | | |  | | | |

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

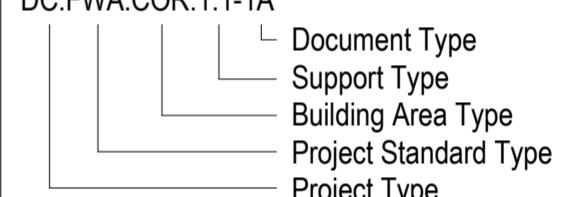
Form3A: Installation Drawing

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



| | | | | |
|------|------------|------------------------|-------|-------|
| P02 | 03/12/2024 | Issued For Information | GJ | JT |
| P01 | 08/11/2024 | Issued For Information | GJ | JT |
| Rev. | Date | Description | Sign. | Veri. |

JOINT VENTURE:

MC Prefab
Nordics

DESIGN & BUILD PARTNERS:

CTS Nordics
BIMMS
integrated engineering
MECWIDE
ENGINEERING CHALLENGES

DRAWING NAME:
DC.FWA.GAN.1.1-1A

| DRAWING STATUS: | SCALE: | STATUS: |
|------------------------------|-----------------|-----------|
| Issued For Information | | S2 |
| DATE CREATED: | LAST REV. DATE: | SIGNED: |
| 08/11/2024 | 03/12/2024 | GJ |
| CONTROL: | | JT |
| DRAWING NUMBER: | FORMAT: | REVISION: |
| FIN3005-BMS-XX-XX-DR-J-71111 | A2 | P02 |