



Design Load:

1. Framing sizes should be selected from the appropriate table with the maximum allowance for the unfactored Total Dead Load of 0.85kPa. Live Loads as per Tables
2. Permissible concentrated live load = 2.7 kN applied over a 0.3mx 0.3m area.
3. Concentrated loads from load bearing walls or point loads shall be supported by additional framing such as joists or blocking.
4. In service mass of Enviro Floor Panel is 45 kg/m2.

Table 1: Span Table for Timber Joists SG8 H1.2

Floor joist size	Maximum Joist Span (m)		
	366mm	440mm	550mm
(a) 1.5 kPa Floor Load (Internal Floors)			
90 x 45	1.35	1.30	1.25
140 x 35	2.00	1.90	1.80
140 x 45	2.20	2.10	2.00
190 x 45	3.10	2.95	2.80
240 x 45	4.00	3.80	3.55
290 x 45	4.85	4.60	4.30
(b) 3 kPa floor load (Internal Floors)			
90 x 45	1.35	1.30	1.15
140 x 35	2.00	1.85	1.75
140 x 45	2.15	2.05	1.90
190 x 45	2.90	2.75	2.55
240 x 45	3.65	3.45	3.25
290 x 45	4.40	4.15	3.90



MASONS TYPICAL DETAIL
APPENDIX
SPAN TABLE 2

Scale
1 : 10 @A3

Date

Drawing No.
A3

Version
JULY 2024 - v2

Design Load:

1. Framing sizes should be selected from the appropriate table with the maximum allowance for the unfactored Total Dead Load of 0.85kPa. Live Loads as per Tables
2. Permissible concentrated live load = 2.7 kN applied over a 0.3m x 0.3m area.
3. Concentrated loads from load bearing walls or point loads shall be supported by additional framing such as joists or blocking.
4. In service mass of Enviro Floor Panel is 45 kg/m².

Table 2: Span Table for Hy- Joists H1.2

Floor joist size	Maximum Joist span (m)	
	440mm	550mm
(a) 1.5 kPa Floor Load (Internal Floors)		
HJ-200x45	3.35	3.15
HJ-240x45	4.10	3.80
HJ-240x63	4.40	4.10
HJ-240x90	4.95	4.65
HJ-300x45	4.90	4.60
HJ-300x63	5.25	4.90
HJ-300x90	5.90	5.50
HJ-360x63	6.05	5.65
HJ-360x90	6.80	6.35
HJ-400x90	7.35	6.85
(b) 3 kPa floor load (Internal Floors)		
HJ-200x45	3.10	2.90
HJ-240x45	3.70	3.50
HJ-240x63	4.00	3.75
HJ-240x90	4.50	4.20
HJ-300x45	4.50	4.20
HJ-300x63	4.80	4.40
HJ-300x90	5.40	5.00
HJ-360x63	5.50	5.10
HJ-360x90	6.20	5.70
HJ-400x90	6.70	6.25



MASONS TYPICAL DETAIL
APPENDIX
SPAN TABLE 3 (a)

Scale
1 : 10 @A3

Date

Drawing No.
A4

Version
JULY 2024 - v2

Design Load:

1. Framing sizes should be selected from the appropriate table with the maximum allowance for permanent Dead Load upto 1kPa.
2. Live Loads as below :

	distributed	concentrated
Domestic	1.5kPa	1.8 kN
Office	3.0kPa	2.7kN

Table 3a : Posi Strut Floor Trusses Span (1.5 kPa Live Load)

Truss Code	D mm	MSG8			MSG10			(Posi Strut standard) (MASON recommended)
		Maximum Span (m) at Spacing = S , mm						
		400	450	600	400	450	600	
		366	440	550	366	440	550	
PS20-21x07	217	3.0	2.8	2.1	3.2	3.1	2.3	
PS25-25x07	248	3.4	3.1	2.4	3.9	3.8	3.2	
PS30-30x07	302	3.8	3.7	3.1	4.4	4.2	3.6	
PS40-40x07	412	4.6	4.2	3.2*	5.4	4.8	4.3	
PS20-21x09	217	3.4	3.2	2.8	3.8	3.6	3.0	
PS25-25x09	248	3.8	3.5	3.1	4.3	4.1	3.6	
PS30-30x09	302	4.3	4.1	3.4	5.0	4.7	4.2	
PS40-40x09	412	5.0	4.8	4.2	5.8	5.7	4.9*	
PS20-21x14	217	3.9	3.8	3.2	4.2	3.9	3.2	
PS25-25x14	248	4.4	4.3	3.8	4.8	4.6	4.2	
PS30-30x14	302	5.1	5.0	4.3	5.6	5.4	4.8	
PS40-40x14	412	6.1	6.0	5.2	6.7	6.5	5.8	
	D/(d1)							
PS40-45x05	463/(70)	4.7	4.5	4.0	5.6	5.3	4.3	
PS40-50x05	502/(90)	5.5	5.2	4.4	6.4	6.0	5.2	
PS40-60x05	602/(140)	7.1	6.8	5.9	7.8	7.6	6.9	

* Additional vertical webs are required at end panels.

Notes:

1. For shaded spans, double webs (DW) are required at end panels.
2. Span less than 2m are not included in the table.



MASONS TYPICAL DETAIL
APPENDIX
SPAN TABLE 3 (b)

Scale
1 : 10 @A3

Date

Drawing No.
A5

Version
JULY 2024 - v2

Design Load:

1. Framing sizes should be selected from the appropriate table with the maximum allowance for permanent Dead Load upto 1kPa.
2. Live Loads as below :

	distributed	concentrated
Domestic	1.5kPa	1.8 kN
Office	3.0kPa	2.7kN

Table 3 (b) : Posi Strut Floor Trusses Span (3 kPa Live Load)

Truss Code	D mm	MSG8			MSG10		
		Maximum Span (m) at Spacing = S , mm					
		400	450	600	400	450	600 (Posi Strut standard)
		366	440	550	366	440	550 (MASON recommended)
PS20-21x09	217	-	-	-	-	-	-
PS25-25x09	248	2.9	2.6	-	3.2	3.4	-
PS30-30x09	302	3.3	3.1	2.8	3.8	3.6	3.2
PS40-40x09	412	3.9*	3.7*	3.1*	4.5*	3.9*	3.4*
PS20-21x14	217	-	-	-	-	-	-
PS25-25x14	248	3.5	3.3	2.9	4.1	3.8	3.5
PS30-30x14	302	4.0	3.8	3.3	4.7	4.3	3.6
PS40-40x14	412	4.6	4.4*	3.5*	5.3	4.9*	3.7*
D/(d1)							
PS40-45x05	462/(70)	-	-	-	-	-	-
PS40-50x05	502/(90)	4.3	4.1	3.5	4.9	4.6	4.1
PS40-60x05	602/(140)	5.7	5.3	4.6	6.6	6.0	4.8

* Additional vertical webs are required at end panels.

Notes:

1. For shaded spans, double webs (DW) are required at end panels.
2. Span less than 2m are not included in the table.