

WARNING: The following drawing is published as guideline only to assist the building designer in the preparation of the building design drawings. The scope of application and adaptation of the drawing is under the responsibility of the building designer.

LOADS

ITEM A.1

DEAD LOAD	
ROOF & DECK	= 0.80 kPa
MECH. & ELECTRICAL STRUCTURE	= 0.10 kPa
JOISTS	= 0.15 kPa
SUSPENDED CEILING	= 0.10 kPa
	= 0.05 kPa
	= 1.20 kPa
LIVE LOAD	
SNOW	= 2.50 kPa

ITEM A.2

GROSS UPLIFT	= 1.00 kPa
DEAD LOAD FOR UPLIFT	= 0.90 kPa

GROSS UPLIFT DIAGRAM

3	1	3
	2	
3		3

Z (TYP.) = 3 m

ITEM A.3

JOIST DESIGNER NOTES

DESIGN ALL ROOF JOISTS FOR A MINIMUM UNFACTORED ADDITIONAL POINT LOAD (DEAD LOAD) OF 1.0 kN APPLIED AT ANY TOP OR BOTTOM CHORD PANEL POINT.

ITEM A.4

ITEM A.5

MECHANICAL UNIT
1 400 kg MAX.
DIMENSIONS
3 m x 2 m

POINT LOAD (SPECIFIED)	
P1	2.0 kN
P2	3.0 kN
P3	4.5 kN

ITEM A.6

FOR PRICING PURPOSES

- 40 SPRINKLER JOISTS ONE 2 kN POINT LOAD AT 1ST PANEL POINT (IN 12 m SPAN).
- 20 SPRINKLER JOISTS WITH ADDITIONAL U.D.L. OF 0.5 kN/m (IN 10 m SPAN)

JOIST DESIGNER NOTE

SPRINKLER LINES TO BE HUNG FROM EVERY JOIST AT TOP CHORD PANEL POINTS ONLY U/N.

ITEM A.7

BRICK LOAD
ON JOIST = 5 kN/m
△ MAX. = A/XXX"

ITEM A.8

ITEM A.9

CRANE LOADS

CAPACITY	= 2 700 kg
CRANE WEIGHT	= 3 400 kg
HOIST WEIGHT	= 450 kg
MAX. WHEEL LOAD (DYNAMIC)	= 30 kN
MIN. WHEELS SPACING	= 2 m
IMPACT FACTOR	= 1.25

FORCES

ITEM B.1

ITEM B.2

ITEM B.3

SEE PLAN FOR JOIST LOCATION
* IF APPLICABLE

ITEM B.4

DESIGN CRITERIA

ITEM C.1

LIVE LOAD DEFLECTION

- ROOF JOISTS = L/240
- FLOOR JOISTS = L/360

SPECIAL LIMITED DEFLECTION

SEE INDICATIONS ON DRAWING BESIDE THE CORRESPONDING JOIST ("X" mm or L/XXX")

ITEM C.2

JOIST DESIGNER NOTE

JOISTS IN HATCHED SECTORS INDICATED ON FLOOR PLAN MUST HAVE A MINIMUM INERTIA OF "X" x 10⁶ mm⁴

ITEM C.3

ITEM C.4

ITEM C.5

FIRE RESISTANCE

- FLOOR CONSTRUCTION TO COMPLY WITH ULC F818. DECK TO BE STAMPED TO COMPLY WITH ULC U18.19.
- ROOF CONSTRUCTION TO COMPLY WITH ULC R801.

ITEM C.6

ITEM C.7

GENERAL NOTE

THE MINIMAL THICKNESS OF TOP/BOTTOM CHORD ("X" mm) AND WEB MEMBERS ("Y" mm) MATERIAL MUST BE RESPECTED FOR WEATHER OR CORROSIVE EXPOSURE AND/OR GALVANIZATION PROCESS (IF APPLICABLE).

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