

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	= 17.0 psf
MECH. & ELECTRICAL STRUCTURE	= 2.0 psf
JOISTS	= 2.0 psf
SUSPENDED CEILING	= 1.0 psf
TOTAL	= 25.0 psf

LIVE LOAD

SNOW	= 51.4 psf
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ITEM A.2

GROSS UPLIFT	= 20 psf
DEAD LOAD FOR UPLIFT	= 18 psf

GROSS UPLIFT DIAGRAM

1	= 27.0 psf
2	= 22.0 psf
3	= 30.0 psf
Z	= 10'-0"

ITEM A.3

JOIST DESIGNER NOTES

DESIGN ALL ROOF JOISTS FOR A MINIMUM UNFACTORED ADDITIONAL POINT LOAD (DEAD LOAD) OF 200 lb. APPLIED AT ANY TOP OR BOTTOM CHORD PANEL POINT.

ITEM A.4

55 psf
25 psf
12'-0" SPU1
JOIST 32" TYP.
MECHANICAL UNIT

ITEM A.5

MECHANICAL UNIT
3,000 lb. MAX. DIMENSIONS
13'-0" x 6'-0"

POINT LOAD (SPECIFIED)	
P1	0.3 kip
P2	0.5 kip
P3	1.0 kip

ITEM A.6

FOR PRICING PURPOSES

- 40 SPRINKLER JOISTS ONE 0.5 kip POINT LOAD AT 1ST PANEL POINT (IN 40'-0" SPAN).
- 20 SPRINKLER JOISTS WITH ADDITIONAL U.D.L. OF 50 pif (IN 35'-0" 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 = 0.5 kip/ft.
△ MAX. = A/XXX"

ITEM A.8

6"
7" = 38 psf
1" = 5.3 psf
JOIST 32" TYP.
PONDING LOAD

ITEM A.9

CRANE LOADS

CAPACITY	= 6.0 kips
CRANE WEIGHT	= 7.5 kips
HOIST WEIGHT	= 1.0 kip
MAX. WHEEL LOAD (DYNAMIC)	= 6.8 kips
MIN. WHEELS SPACING	= 6'-0"
IMPACT FACTOR	= 1.25

FORCES

ITEM B.1

Af = 20 kips
Af = 40 kips
Af = 20 kips
JOIST 32" TYP.

ITEM B.2

GRID
A
BEAM
f = X kips
JOIST GIRDER
GRID
f = X kips

ITEM B.3

M_w M_{LL}^* M_{LL}^* M_w

SEE PLAN FOR JOIST LOCATION
* IF APPLICABLE

ITEM B.4

f = X kips
A
WIND COLUMN
f = X kips
A
WIND COLUMN

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" inches or L/XXX")

ITEM C.2

JOIST DESIGNER NOTE

JOISTS IN HATCHED SECTORS INDICATED ON FLOOR PLAN MUST HAVE A MINIMUM INERTIA OF "X" inches⁴

ITEM C.3

ELEV. 100'-0"
JOIST 32" TYP.
2"
3"
4"
6"
4"
ROOF INSULATION (BY OTHERS)
JOIST 32" TYP.
W12 x 14
W12 x 14
W12 x 14
JOIST GIRDER 36"
VARIABLE SEAT HEIGHTS
JOIST 40" @ 40"
JOIST 40" @ 39" @ 40"
JOIST 40" @ 38" @ 40"
JOIST 40" @ 36" @ 40"
JOIST 40" @ 39" @ 40"
JOIST 40" @ 40" @ 40"

ITEM C.4

4"
W16 x 36
JOIST 32" TYP.
SPECIAL CAMBER "X" inches
W16 x 36

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

MAXIMUM CLEAR OPENING
THICKNESS VARIES
FIRE PROTECTION
H
D
R
LOCATION MUST BE GREATER THAN
2.5 x H
4" MINIMUM
4" MINIMUM
H

ITEM C.7

GENERAL NOTE

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

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