



**PACKAGE #4**

**Description**

Depending on the complexity of your project and requirements, Cogan recommends that most clients and/or end users work in association with an architect for additional support. This is to ensure that any critical aspects such as building classification and occupancy, electricity, plumbing, fire codes, exit signage etc. will be properly analyzed and addressed. Please keep in mind that Cogan is not responsible for certifying or analyzing the concrete slab capacity and integrity where the mezzanine columns are to be installed.



**PE STAMPED WITH CALCULATIONS AND CONNECTION DETAILS**

**CAPACITY / DESIGN CRITERIA DATA**

MAX. VERTICAL DEFLECTION (L)	300
STOREY HEIGHT (in)	114
<b>SEISMIC DATA:</b>	
S <sub>1</sub>	1.000
S <sub>2</sub>	0.500
Site Class	D
S <sub>ms</sub>	0.733
S <sub>m1</sub>	0.500
Occupancy Category	CC

**PROFESSIONAL ENGINEER STAMP**

**PLAN AND ELEVATION VIEW WITH COLUMN AND BEAMS LOCATIONS**

**BEAM & COLUMN SCHEDULE INCLUDING BEAM LOADS AND COLUMN LOADS TRANSFERRED TO SLAB**

Beam/Column	P <sub>fact</sub> [kips]	P <sub>dead</sub> [kips]	M <sub>u</sub> [ft-k]
1	5.00	0.40	2.97
2	10.00	0.80	2.46
3	3.96	0.32	2.46
4	7.19	0.58	0.33
5	10.21	0.82	0.00
6	10.00	0.80	2.5
7	10.00	0.80	2.4
8	1.88	0.0	18.78
9	0.48	0.00	6.50

**EXAMPLE**





**Cogan**<sup>®</sup>

A Tradition of Quality Since 1901



**Mezzanines**

Increase Floor Space

cogan.com

**ENGINEERING**

## PE STAMPED WITH CALCULATIONS AND CONNECTION DETAILS

### PE STAMPED PLANS WITH CALCULATIONS WITH CONNECTION DETAILS

COGAN MEZZANINE PE STAMPED PLANS WITH CALCS AND CONNECTION DETAILS PACKAGE INCLUDES (CONTACT COGAN FOR PRICING):

**INCLUDED:**

This package is ideal when you are applying for a permit from the city. Our engineers will prepare specific drawings detailing the different aspects of the mezzanine that are generally required during the permitting process. Please note that Cogan is not responsible for any delays encountered during plan check and revisions that may be caused by city regulations. The permits are to be obtained at the purchaser's expense. Due to the variation of safety codes between regions, it is also the responsibility of the purchaser and/or end user to ensure that the product complies with all respective Electrical, Fire, Seismic, or Safety Codes, that pertain to the use and installation of the mezzanine. The purchaser and/or end user must arrange for the appropriate installation and testing of the Cogan mezzanine such that all State, Provincial or Local Safety codes are respected.

6 copies of the following:

- Stamped structural plan and elevation drawings including design criteria data.
- Mezzanine classification details and compliance including mezzanine location based on information received by client.
- Dimensions of the overall mezzanine as well as columns and beams location, fastener details and dimensions.
- A copy of the engineering calculations.

\* Please note that 1 (one) stamped version is included with this package. Any revisions or modifications after the approval stage might incur additional costs.

Structural drawings including dimensions, design specifications and fastener specifications of the following:

- Bracing
- Column and base plate
- Beam to column connection
- Beam to beam connection
- Bridging
- Flooring
- Staircase
- Handrail
- Installation drawings and procedure supplied on delivery.

Please note that the client and/or end user is responsible for all quantities and dimensions including the verification of, and coordination with field conditions. The client and/or end user is also responsible for the building classification on all construction and warrants that all construction will be governed by the latest edition of the state or provincial building code (including any revisions or addendums) and/or with any other applicable code or requirements of all authorities having jurisdiction. Cogan mezzanines are designed in compliance with the National Code and the American and Canadian Institute of Steel Construction (NBCC and CISC in Canada and IBC and AISC in the U.S.).

**NOT INCLUDED:**

- Footing design and anchor design.