

Supported Scaffolds

Construction Equipment

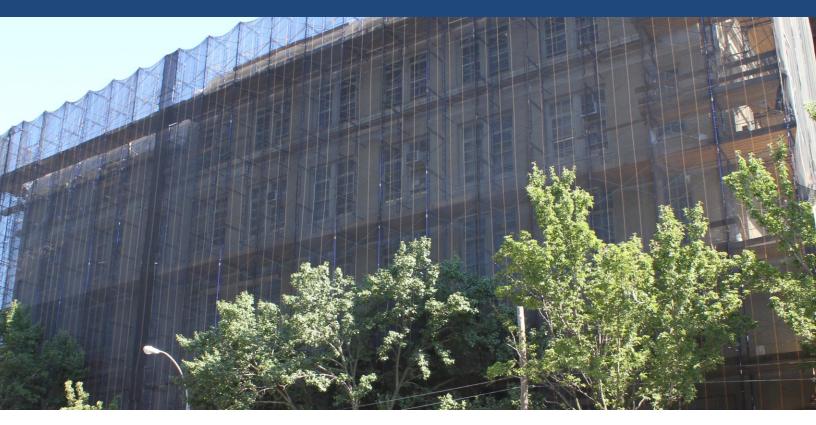


Photo: Dante Ramirez



ALT 3 – SCAFFOLD (EQ)

Supported Scaffolds are erected over sidewalks to protect pedestrians from potential debris that may fall from construction work occurring above the sidewalk. These are temporary structures that provide construction worker access to the façade of the building and also serve as a frame on which safety netting may be installed.

New York City Building Code

The Building Code sets forth standards and specifications for the installation of supported, outrigger and suspended scaffolds. Detailed safety requirements pertaining to scaffold maintenance, inspections and worker precautions and protection are also outlined in this Code. This code note addresses supported scaffolds, for suspended and outrigger scaffolds see BC §3314.3.1 and BC §3314.3.2.

Design of scaffolds - BC §3314.3.1

- Supported scaffolds must be designed by a registered design professional.
- Exception: Design is not required for a supported scaffold, provided:
 - 1. The scaffold is not an outrigger scaffold (thrust out);
 - 2. No hoisting equipment with a manufacturer's rated capacity greater than 2,000 pounds (907kg) will be located on the scaffold;
 - 3. The scaffold will not be loaded, or designed to be loaded, in excess of 75 pounds per square foot (366.15 kg/m²);
 - 4. The scaffold is less than 40 feet (12 192mm) in height;
 - Side-arm or end-arm scaffold brackets are used exclusively for the support of workers; and
 - 6. The scaffold is a light duty scaffold, a medium duty scaffold, or a heavy duty scaffold.

Related Construction Equipment

Other types of construction equipment commonly filed in conjunction with supported scaffold includes, sidewalk sheds, safety netting, hoists, cranes, derricks and chutes.

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This publication is an overview of the requirements for this type of work. There may be additional, applicable Zoning Resolution, Construction Code, Multiple Dwelling Law or Energy Code requirements.

FIRST STEPS

- PW1 job description, reason for scaffold
- Zoning district, site designations (special purpose districts, waterfront area or block, flood hazard area, fire district, landmark district, little 'e' DEP designated block, wetlands, 200' within MTA infrastructure)
- Lot diagram, scope and area of work indicated
- Height of the building
- Light / medium / heavy duty / extra heavy duty classification indicated

ADMINISTRATIVE

DOB Forms

- PW1 can be filed by an owner or contractor
- TR1 by PE / RA

Related Applications

- · Separate application for NB, alteration or demolition
- Separate sidewalk shed application if supported on sidewalk shed

ZONING

N/A

MULTIPLE DWELLING LAW

N/A

FIRE CODE

504.4.1(6) – Obstructing rooftop access

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BUILDING CODE

Minimum Information on Plans Required - BC §3314.3.3

- Plan view and elevation view, with full dimensions, detailing:
 - The location of the scaffold.
 - Connections and attachments to the base structure, including but not limited to anchorages, fastenings, tie-ins, tie-backs, and lifelines;
 - Any structural modifications required to the base structure;
 - Netting with specific type and manufacturer indicated, overhead protection, or any other equipment attached to the scaffold;
 - Any hoisting equipment located on the scaffold;
 - Platform levels, support centers, and offsets, along with the maximum number of levels to be loaded simultaneously and the maximum loads to be imposed;
 - For a suspended scaffold, ropes, number of clips, and counterweights, as well as outrigger beams or other support devices;
 - For a suspended scaffold that will not be lowered to the street or deck of the sidewalk shed at the end of the shift, how the scaffold will be secured while work is not being performed; and
 - For a supported scaffold, structural members, as well as the founding of the scaffold, including but not limited to sidewalk sheds, floors, roofs, or ground.
- Height of the building
- Type of scaffold (supported / outrigger) BC §3314.3.1
- Design load BC §3314.4.4.2
- Capacity BC §3314.4.4.3
- Safety provisions for workers and training requirements BC §3314.4.5.2
- Construction material of the scaffold platforms BC §3314.5
- Footings and anchorage BC §3314.6
- "Loads imposed letter" if supported on a sidewalk shed or other structure BC §3314.3.4

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- Scaffolds supported on rooftops, check design load limit of rooftop(s) BC §3301.6 and BC §3314.3.3
- Scaffolds supported on sidewalk sheds, check load limit of sidewalk shed BC §3301.6, BC §3314.3.3, BC §3314.3.4, and BC §3314.9.2
- Any required structural analysis BC §3314.3.3
- Debris netting where applicable BC §3314.8.2
- Height to base ratio and restraints BC §3314.9.1
- Structural stability inspection if restrained either horizontally or vertically— BC §1704.20.1
- Installation of post-installed anchors special inspection— BC §1704.32, Table 1704.32

ENERGY CODE

N/A

APPLICABLE BULLETINS, DIRECTIVES, PPNS, MEMOS, RULES

- BB 2013-011 Action plan for extreme weather
- BB 2015-018 Anchors into masonry

OTHER AGENCY APPROVALS

N/A

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