

REFUSE CHUTES / COMPACTOR STACKS

This *Standard Notice* addresses the Procedure and Criteria to be considered regarding the rehabilitation the Refuse Chutes/Incinerator Stacks.

INTRODUCTION

The following Code references apply to Refuse Chutes/Incinerator Stacks:

- 2014 NYC Building Code Chapters 14, 16, 17, and 21
- 2014 NYCBC RCNY §16-01 (Inspection of Existing Structures During Construction Operations)
- 2014 NYCBC RCNY §24-01 (Refuse Chutes & Refuse Rooms) Section (c), ... 'any existing refuse chute that is built of 8" minimum thick brick masonry and extends from the compactor room to at least 6'-0" above the roof may continue to be used as such...'.
- 2014 NYC Mechanical Code, Chapter 8 §801

In the early 1980s when New York City banned the use of incinerators for the burning of waste the New York City Housing Authority started converting all existing incinerator flues in its developments to refuse chutes (aka compactor stacks). These compactor stacks typically extend from the basement to approximately 10 feet or more above the main roof surface. The walls of the compactor stacks are typically made of 8 inch fire brick masonry. A spark arrestor is installed at the top of the stack on concrete coping stones. NYCHA has also abandoned the Ash Settling Chambers (aka Smoke Rooms) located on the roof of the buildings; the stacks are connected to these chambers via two openings. As the name suggests, the purpose of these chambers was to allow larger ash particles left over from the combustion process to settle before the gases were exhausted.

At the roof level, the compactor stacks are either freestanding, installed adjacent to bulkheads, inside of bulk heads and protruding through bulkhead roofs, or inside of water tank towers.

Historically, these brick compactor stacks have required frequent repairs due to leaks. Typical repairs consist of repointing, the replacement of the top 4 feet of brickwork, as well as the coping stones, and the spark arrestors.

Ongoing brick masonry maintenance on its buildings comes at a substantial cost to NYCHA. The elimination of brick masonry from the NYCHA portfolio will reduce future expenses associated with repointing and replacement. This Notice outlines the standard procedures for the repair of roof top structures such as compactor stacks and smoke rooms.

DESIGN TO REPAIR APPROACH

OoD has developed a standard approach for all compactor stacks in building envelope repair projects that include a roof replacement. Stacks are to be removed and capped, which will decrease the quantities of future brick repair. This will greatly reduce all LL11 issues as well as long-term water leaking associated with these stacks. Where feasible, all obsolete smoke rooms are to be removed in order to avoid future expenses associated with brick and roofing maintenance and repair. It is proposed to remove the reinforced concrete smoke shelf inside the stack where it is practical as well.

	Abandoned Incinerator Stack / Chimney	Incinerator Stack converted to Refuse Chute	Chimney w/ Active Flue
Special Inspection Required	No	No	Yes
Height Above nearest Roof	May be shortened to 0'-0" above highest roof and capped.	6'-0'' per NYCBC RCNY §24-01	Dependent on exhaust temp.
Spark Arrestor	N/A	Yes	No
Sprinkler	N/A	No if brick thickness complies with minimum required.	No
Сар	N/A	Yes	No, unless part of flue design

Table 1 -	- NYC BC	Requireme	nts for Chim	nev Repairs	& Alterations
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Attached are standard details addressing typical stack configurations throughout the NYCHA portfolio. In general, stacks should be cut above the roofs and capped off; stationary metal louvers backed with a wire mesh (acting as a spark arrestor) are to be provided on multiple sides (as required for ventilation, typically with the net area equal to the existing stack opening).

Attachments: Drawing A.011 – Typical Refuse Chute Roofing / Flashing Details
Drawing S.011 – Typical Compactor Stack Modification Details - I
Drawing S.012 – Typical Compactor Stack Modification Details - II

End of Standard Notice CPDDESIGN2016002





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TABLE 1 - REQUIRED LOUVER SIZES BASED ON 50% FREE AIR (ADJUST DIMENSIONS AS NEEDED)

PLAN SECTION BELOW (N) PRECAST/CIP CONCRETE CAP

SCALE: 1 1/2" = 1'-0"

COMPACTOR STACK FREE AIR AREA (IN ²)	ONE SIDE LOUVER BXH	TWO SIDES LOUVERS BXH	THREE SIDES LOUVERS BXH	FOUR SIDES LOUVERS BXH
LESS THAN 500	2'-0" X 2'-0"	2'-0" X 2'-0"	2'-0" X 1'-6"	1'-6" X 1'-6"
500-1000	2'-0" X 3'-6"	2'-0" X 3'-6"	2'-0" X 2'-6"	2'-0" X 2'-0"
1000-1200	2'-0" X 4'-6"	3'-0" X 3'-0"	3'-0" X 2'-0"	2'-6" X 2'-0"

TABLE 2 - ENERGY ANALYSIS FOR ALTERATION - CLIMATE ZONE 4A (ENVELOPE ONLY)

ECCNYC 2014	ITEM DESCRIPTION	WORK LOCATION	PROPOSED DESIGN VALUE	CODE PRESCRIBED VALUE	COMMENTS
NYCDOB TECH BULLETIN BB2010-0153. INTERPRETATION OF SECTION 101.4.3 OF NYCECC WITH REGARDS TO ADDITIONS, ALTERATIONS, REPAIRS REPAIR WORK NEED NOT COMPLY IF APPLICANT CAN DEMONSTRATE COMPLIANCE WOULD CREATE HAZARD OR OVERLOAD EXISTING BUILDING SYSTEM.	ENVELOPE. MASONRY REPAIR AT SPANDREL BEAMS.	ROOF EDGE & SPANDREL BEAM. TEMPORARY ROOFING. REFER TO DOB NOTE ON DWG. T-001.00	N/A	N/A	TEMPORARY ROOFING SYSTEM. MEANS AND METHODS TO REPLACE PARAPET. REFER TO ARCHITECTURAL ROOFING DRAWINGS FILED SEPARATELY.

