

**SECTION 02 56 23
DUST CONTROL**

PART 1.00 - GENERAL

1.01 RELATED DOCUMENTS

- A. The "Contract Drawings"; the "Instructions to Bidders and General Conditions, NYCHA Contracts", latest edition; the "Form of Proposal", "Division 1 General Requirements"; the "Amendments to General Conditions"; and all amendments and addenda, apply to the work of this Section.

1.02 SUMMARY

- A. The work of this Section includes:
 - 1. Employment of dust control procedures for controlling dust and other particulate matter resulting from construction work and other surface disturbance activities throughout all work of this project.

PART 2.00 - PRODUCTS

2.01 MATERIALS

- A. Polyethylene sheets (6 mil fire retardant).
- B. Cleaning Solution: Ledizolv or equivalent which does not contain tri- sodium phosphate (TSP).
- C. Miscellaneous Materials
 - 1. Polyethylene bags
 - 2. HEPA VAC's
 - 3. HEPA equipped power tools
 - 4. String mops
 - 5. 2 Buckets
 - 6. Water misters or spray bottles
 - 7. Duct tape
 - 8. Utility Knives
 - 9. Clean rags

PART 3.00 - EXECUTION

3.01 GENERAL

- A. The purpose of these procedures is to ensure that dust and debris are limited to the work area(s).

3.02 WORK AREA PROTECTION

- A. Cover entrances to the work area with a single layer of 6 mil polyethylene sheets taped to the top and weighted at the bottom.
- B. Place 6 mil polyethylene sheets 5 ft. wide minimum adjacent to surfaces to be disturbed. Use same type of sheets to wrap materials to be removed.
- C. Protect Authority property and occupant belongings within work area by covering them with 6 mil polyethylene sheets secured with duct tape.

3.03 DUST CONTROL PROCEDURES

- A. Use wet methods when demolishing walls or other components that produce dust during demolition. Wet all surfaces to be disturbed with a fine spray of water to limit the creation of and dispersal of dust. Periodically rewet the area while working.
- B. Use power tools wherever possible equipped with a HEPA vacuum capable of trapping and retaining 99.97% of all particles 0.3 micrometers in dia. or greater.
- C. Observe safety precautions in contained work areas.
 - 1. Do not smoke in the work area.
 - 2. Do not eat or drink in the work area.

3. Keep polyethylene sheeting away from open flame, e.g., stoves, and blowtorches.
 4. Exercise caution when spraying in the vicinity of electrical outlets.
 5. Prevent children from entering the work area.
- D. Wrap all materials to be removed in 6 mil polyethylene bags tied with plastic ties at least 5" long.
- E. Avoid spreading dust and debris outside the work area.

3.04 CLEAN-UP PROCEDURES

- A. Upon completion of gross clean-up the Contractor shall thoroughly clean the work area(s) in the following manner. The Contractor shall never dry sweep dust or debris.
- B. Small Debris/Dust Removal
1. Vacuum remaining dust and debris at moderate speed using a vacuum equipped with a High Efficiency Particulate Air filter (HEPA VAC).
- C. Cleaning of Tools
1. The Contractor must thoroughly wet wipe and clean all tools. Conversely the contractor may remove gross material and seal tools in a bag to be transported immediately to next work area.
- D. Polyethylene Sheeting Removal
1. Remove sheeting from the vents, windows, pipe openings and any other protrusions.
 2. With a spray bottle, moisten the sheeting covering the floor. Fold floor sheeting in upon itself to capture any remaining dust.
 3. After use, place the plastic sheeting into bags. Close all bags with an airtight gooseneck seal (e.g., twist the bag, fold it over on itself, and wrap with duct tape and/or plastic tie).
- E. Vacuuming
1. If the same personnel that performed demolition work are to complete the cleaning Tyvek coveralls shall be removed and replaced with a clean pair at this time.
 2. Vacuum the entire work area; except for the floor, starting at the highest and furthest point from the entrance working in a downward and forward motion. Use a vacuum equipped with a High Efficiency Particulate Air filter (HEPA VAC).
 3. Vacuum at a moderate speed.
- F. Wet Cleaning
1. Prepare Cleaning Solution (Two Bucket Method)
 - a. Fill a bucket (bucket #1) with a MIXTURE of water and the lead specific cleaning solution, and label it cleaning solution.
 - 1) Follow the manufacturers' instructions carefully when mixing the cleaning solution with water.
 - b. Fill another bucket (bucket #2) with clean cold water, and label it clean rinse; place it with the bucket labeled cleaning solution.
 2. Wipe walls and horizontal surfaces except floors.
 - a. Using the two bucket method, use two rags designating one as the solution rag (rag #1) and the other as the rinse rag (rag #2).
 - 1) Dip rag #1 into bucket #1, wring the excess solution into the same bucket and begin to wipe.
 - 2) Continue wiping until the rag is dry.
 - 3) Dip rag #2 into bucket #2 and wipe only the area you just cleaned with rag #1.
 - 4) Repeat steps 1 through 3 until designated areas are completely wiped.
 - (a) Periodically change the water in bucket #2 (clean rinse).
 - (b) Wipe all surfaces including every inch of the window sills, window troughs (interior and exterior), radiators, convectors, tops of doors, wall light fixtures, kitchen countertops/cabinets/cabinet door edges and any other horizontal surface where dust can accumulate.
 - 5) Remove primitive airlock from doorway and place in bag.

- 6) Remove sheeting from hall area between apartment and bathroom entrance.
3. Mop Floors
 - a. After completely cleaning walls and all other horizontal surfaces, mop all floors using the following procedure:
 - b. Prior to mopping, dump the water from bucket #2 (clean rinse) and refill it with clean cold water. Using the two bucket method, use two mops designating one as the solution mop (mop #1) and the other as the rinse mop (mop #2).
 - 1) Dip mop #1 into bucket #1, wring the excess solution into the same bucket and begin to mop.
 - 2) Continue mopping until the mop is dry.
 - 3) Dip mop #2 into bucket #2 and mop only the area you just cleaned with mop #1.
 - 4) Repeat steps 1 through 3 until all floor areas are completely mopped.
 - (a) Periodically change the water in bucket #2 (clean rinse).
 - 5) Do not discard wash water in an apartment.
- G. Personal Clean-up
 1. To reduce the spread of dust beyond the work area, before exiting the work area, the Contractor shall remove dust and debris from themselves and their clothing.
 2. Legally dispose of materials from clean-up. Do not discard them in trash cans.

3.05 CLEARANCE

- A. The Authority reserves the right to visually inspect the work area for dust. If dust is found in the work area, the Contractor shall be required to conduct additional cleaning at no cost to the Authority until the Authority is satisfied.

END OF SECTION 02 56 23