

**SECTION 02 42 13 (09515)**

**RECLAMATION OF ACOUSTICAL CEILING PANELS**

**Armstrong World Industries, Inc.**

**Ceiling & Suspension System Specification**

**Please understand that you are responsible for the accuracy of all project specifications, including any Armstrong guide specifications that you use.**

**ARMSTRONG SHALL NOT BE LIABLE FOR ANY DAMAGES ARISING OUT OF THE USE OF ANY OF ITS GUIDE SPECIFICATIONS.**

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**PART 1 - GENERAL**

**1.1 RELATED DOCUMENTS**

Drawings and general conditions of Contract, including General and Supplementary Conditions and Divisions-1 Specification sections apply to work of this section.

**1.2 SUMMARY**

- A. Section Includes:
  - 1. Reclamation Plan for acoustical ceiling panels.
- B. Related Sections:
  - 1. Section 01 93 16 – Recycling Programs
  - 2. Section 09 51 00 (09510) - Acoustical Ceilings

**1.3 DEFINITIONS**

- A. Armstrong: Armstrong World Industries, Inc.
- B. Recycler/Consolidator/C&D Processor: The entity providing palletized/baled reclaimed ceilings to Armstrong.
- C. Contractor: Entity removing ceilings for reclamation.
- D. Common Carrier: Independent carrier utilized by Armstrong for delivering full trailers of reclaimed ceiling panels to Armstrong.

**1.4 SUBMITTALS**

- A. Applicable LEED Credits: Meet the performance requirements for the following LEED Environmental Categories and Credits as indicated.
  - 1. Category 4: Material and Resources (MR)
    - a. Credit MRc2: Construction Waste Management
- B. LEED Documentation:
  - a. Submit data and information demonstrating compliance with LEED requirements.
- C. Incorporate ceilings into the project site Waste Management Plan as a material to be recycled.

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#### 1.5 QUALITY ASSURANCE

- A. Materials Acceptable for Recycling:
  - 1. All brands of dry, pulpable mineral fiber ceiling panels or tiles. All metal splines must be removed from tiles (12"x12").
  - 2. All brands of dry fiberglass panels (foil-back case by case). Facing must be easily removable.
  - 3. Any vinyl or scrim-faced mineral fiber panels.
- B. Materials Acceptable for Recycling Case-by Case: (Contact the Armstrong Recycling Center at 877-276-7876 option 1,8)
  - 1. Foil-backed ceiling tiles.
  - 2. Any vinyl or scrim-faced fiberglass panels.
  - 3. Ceiling tiles with dark or metallic paint (applied by manufacturer).
  - 4. Ceiling tiles with paint not applied by manufacturer.
  - 5. Armstrong Woodworks Ekos Wall Panels.
  - 6. Armstrong Soundsoak mineral fiber or fiberglass wall panels.
  - 7. Fabric-faced ceiling tiles.
  - 8. Cast ceiling panels (with or without foil).
  - 9. Armstrong Sanserra.
  - 10. Armstrong Mylar.
  - 11. Fully packaged ceiling tiles meeting the above criteria.
- C. Materials Not Acceptable for Recycling:
  - 1. Asbestos containing ceiling tiles, Ceiling tiles installed below friable asbestos or contaminated with any other hazardous material.
  - 2. Red or pink-backed ceiling tiles.
  - 3. Wet, moldy or weathered ceiling tiles.
  - 4. Ceiling tiles or pallets/boxes/bales which contain visible debris (garbage, construction waste).
  - 5. Ceiling tiles not packaged according to Armstrong Specifications.
  - 6. Any gypsum ceiling or board.
  - 7. Ceiling tiles with visible wood pulp.
  - 8. Armstrong Artran (cardboard like face).
  - 9. Armstrong Ceramaguard.
  - 10. Glue-up or adhesive ceiling tiles.
  - 11. Roll-offs which contain debris.
  - 12. Baled fiberglass, vinyl-faced, fabric, scrim faced or foil-backed ceiling tiles.
- D. Call the Armstrong Recycling Center at 877-276-7876, select option 1, then option 8 to review the building where the ceilings will be removed, verify the material meets our requirements and for assistance to facilitate recycle. We are continually updating the types of ceiling panels we can recycle and methods we can receive them in.
- E. Ceiling material being reclaimed may not come into contact with asbestos containing material, hazardous waste materials or special waste.

If the area where ceilings are being removed is or has gone through abatement procedures, verification that ceilings did not come in contact with asbestos containing material is required.
- F. Ceiling material being reclaimed must be kept dry and free from debris.
- G. Coordination of Work: Coordinate acoustical ceiling demolition work with contractors doing related work in the building including, but not limited to building insulation, gypsum board, light fixtures, mechanical systems, electrical systems, and sprinklers.

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**1.6 PROJECT AND MATERIAL APPROVAL**

- A. Register Your Recycle Project: Contact the Armstrong Ceiling Recycling Center at 877-276-7876 option 1,4.
- B. Required Information to Approve your project for recycling:
  - 1. Contact information for the recycle project.
  - 2. Building information (Year of Building Construction, GC or Demo Contractor, Building use, copy of an asbestos survey, details on any prior or current abatement where ceiling is removed).
  - 3. Ceiling Information – Material type, quantity, timing

**PART 2 - PRODUCTS**

Not used.

**PART 3 - EXECUTION**

**3.1 SCHEDULING, PACKAGING AND SHIPPING PROCEDURES**

- Receive final project approval for recycling by the Armstrong Recycling Center.
  - Contractor will remove ceiling tiles to be recycled from grid.
  - Contact the Armstrong Recycling Center (877-276-7876 option 1,4) to schedule a pick up. There are several return options available (see A, B, C)
- A. Full Truckload Palletized Procedure:
    - 1. Contractor to supply pallets, metal bands, stretch wrap.
    - 2. Approved ceiling materials will be palletized in a manner allowing both secure shipment by trailer and the ability of Armstrong employees to safely inspect and unload the trailers' contents. For this reason, all approved ceiling materials sent to Armstrong must be neatly stacked as follows:
      - a. 4' x 4' pallets stacked with ceiling materials to 4 feet tall each and then stacked on top of each other in the trailer. This method is preferred but proper loading equipment must be available at the job site.
      - b. 4' x 4' pallets stacked with ceiling materials to 6 feet tall each.
      - c. Some combination of 2'x4' and 4'x4' pallets that are agreed upon in advance, in writing to accommodate special building circumstances. This option would be available if building elevators do not accommodate larger size pallets. When 2' x 4' pallets are used place onto 4' x 4' pallets to stabilize two 2' x 4' pallets. Use stretch wrap to secure pallets together.
    - 3. Contractor will neatly stack ceiling panels on 4' x 4' wooden pallets and secure them with metal bands or stretch wrap for stable shipment. Any variation from pallet size must be pre-approved by Armstrong.
    - 4. Pallets must be kept dry. Wet material is not acceptable and will be returned. Pallets must be labeled per Armstrong requirements.

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5. Pallets must be secured within trailers to prevent shifting in transit. Carriers will provide load stabilizers.
6. Armstrong will pay for the return freight of full trailers of approved material, all of which are defined as a minimum of 30,000 square feet as follows:
  - a. Forty-four 4' x 4' pallets stacked with ceiling material to 4 feet tall each and then stacked on top of each other in the trailer. This method is preferred but proper loading equipment must be available at the job site.
  - b. Twenty-two 4' x 4' pallets with ceiling material stacked to 6 feet tall each.
7. It is recycler's responsibility to ensure that only full trailer loads of approved ceiling materials are shipped.

**B. Less Than Full Truckload Palletized Procedure:**

1. Where the amount of approved ceiling materials from a site is insufficient for a full trailer load, a local recycler/consolidator may elect to consolidate approved ceiling materials in a secure and dry location, until a full trailer load is ready for shipment. The recycler/consolidator will ensure that all such aggregate shipments are and remain clearly labeled as to their origin and date of approval by an Armstrong employee. Go to [www.armstrong.com/recycling](http://www.armstrong.com/recycling) to find a local consolidator.
2. Recycler/consolidator/C&D Processor may assist in supplying pallets, metal bands, and stretch wrap.
3. Handling will then comply with full truckload procedure. Coordinate with recycler/consolidator on best pallet stacking option (4'X4'X4' or 4'X4'X6') depending on job site loading conditions and equipment available.
4. When local consolidation is not available a LTL pick up may be arranged in some areas for five (5) pallets (7,000 sq. ft.) or more of approved ceiling materials. Armstrong will pay the return freight of these LTL pickups. LTL pickup must be pre-approved by Armstrong when other options are not available.
5. The recycler/consolidator/C&D Processor retains ownership of approved ceiling materials until it is received and accepted at the destination, the Armstrong Plant, as defined by the terms of shipment, F.O.B. (Free on board) destination, despite Armstrong's payment of the freight costs for full trailer loads. While the Armstrong approved common carrier is not a party to this agreement, the following describes their responsibilities. The common carrier that Armstrong has selected is responsible for the transport of the approved ceiling materials from the pick up location to Armstrong's plant. This carrier is an independent contractor utilized by Armstrong and required to demonstrate general liability insurance coverage that meets or exceeds industry standards.

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- C. On-site Roll-Off Procedure (Bulk Return to C&D Processor):
- a. Material must be clean and dry
  - b. No wood, metal, construction debris, trash or hazardous materials of any kind can be included.
  - c. Material should be placed in a roll-off container. This container must have a water impermeable cover such that material inside do not get wet. Material should not be loaded above the top of the container
  - d. Container should have visible Armstrong RA label attached.

Work with an Armstrong approved C&D processor to return ceilings to their location. Go to [www.armstrong.com/recycling](http://www.armstrong.com/recycling) to find a local C&D processor. Ceilings will then be processed and returned to Armstrong.

**END OF SECTION**