

SECTION 00645 - RECYCLED ASPHALT PRODUCTS IN BASE

(Follow all instructions. If there are no instructions above a subsection, paragraph, sentence, or bullet, then include them in the project. The specifications may be modified to include project specific specifications, but all additions, deletions, or modifications must be sent to the ODOT Technical Resource and Senior Specifications Engineer for review and approval.)

Section 00645, which is not a Standard Specification, is included in this Project by Special Provision.

Description

00645.00 Scope - This work consists of hauling recycled asphalt products from Agency-provided stockpiles specified in Section 00160 and placing one or more layers of recycled asphalt products, mixed with water, on a prepared surface to the lines, grades, thicknesses, and cross sections shown or established.

Materials

00645.10 Materials - Furnish recycled asphalt products of the designated sizes from the stockpiles except discard hardened lumps exceeding 2 inches on any measured face at the stockpile site in a separate new stockpile or reprocess to achieve the desired maximum size limit.

Acceptance of the recycled asphalt products will be by visual inspection.

00645.12 Limits of Mixture - Provide a mixture of recycled asphalt products and water having a uniform moisture content sufficient to obtain the required compaction. Water may be introduced in a mixing plant, or on the grade.

00645.15 Quality Control - Provide quality control according to Section 00165.

Equipment

00645.21 Hauling Equipment - Provide recycled asphalt products hauling vehicles capable of hauling and depositing the recycled asphalt products material with a minimum of material segregation.

00645.22 Watering and Spreading Equipment - Provide equipment to add water to the recycled asphalt products and spread to the lines and grades shown or as directed.

00645.23 Compacting Equipment - Provide self-propelled rollers and compactors capable of reversing without backlash and meeting the following requirements:

- A gross static weight of at least 10 tons.

- Adequate to compact to specified density while the recycled asphalt products is still moist.

Labor

00645.30 Quality Control Personnel - Provide a technician having a [CAT-I-CDT](#) technical certification.

Construction

00645.40 Preparation of Foundation - Provide a firm surface or material on which recycled asphalt products is to be placed, according to Sections 00320, 00330, 00370, 00380, and 00610 as applicable.

00645.41 Mixing, Hauling, and Placing - Load the recycled asphalt products into the hauling vehicle without compacting material remaining in the stockpile.

Add water to recycled asphalt products while mixing to provide moisture content according to 00645.12.

Thoroughly mix the combined recycled asphalt products and water for as long as necessary to produce a homogeneous mixture. Mix, haul, and place the material by one of the following methods:

(a) Stationary Mixing Plant - Combine materials in a pug mill or rotary mixer.

Deliver and deposit the mixture without delay. Deliver the mixture to the spreading equipment by direct deposit into its receiving device, or by placing in uniform windrows in front of the equipment.

(b) Road Mix - Place materials for each layer, add water, and mix with a motor grader until a homogeneous mixture is achieved.

00645.43 Thickness and Number of Layers - If the required compacted depth of the course exceeds 6 inches, construct it in two or more layers of nearly equal thickness. The maximum compacted thickness of any one layer shall not exceed 6 inches unless approved by the Engineer.

Place each layer in spreads as wide as practical and to the full width of the course before a succeeding layer is placed.

00645.44 Shaping and Compacting - Begin compaction of each layer immediately after the material is spread. Determine optimum roller pattern according to ODOT TM 306 C "Control Strip Method of Compaction". Maintain optimum roller pattern throughout.

Shape and maintain the surface of each layer, during the compaction operations, to produce a uniform texture, and to meet the requirements of 00645.45.

Apply additional water over the materials for proper compaction.

00645.45 Surface Tolerance - The finished surface of the recycled asphalt products and the surface of each underlying layer shall parallel the established grade and cross section for the finished surface within 5/8 inch.

The finished surface of the compacted recycled asphalt products, when tested with a 12 foot straightedge, shall not vary from the testing edge by more than 5/8 inch at any point. Furnish and operate the straightedge as directed.

Maintenance

00645.60 Care of the Work - After construction of each layer and completion of recycled asphalt products course, maintain the layer to specified conditions, and prevent or repair segregation, raveling, or rutting until it is covered with a following layer or until all work is completed.

Measurement

00645.80 Measurement - The quantities of recycled asphalt products will be measured on the area basis, of recycled asphalt products constructed to the full nominal thickness. In areas and where the thickness is other than the full nominal thickness, the areas will be adjusted by converting it to an equivalent number of square yards at the full nominal thickness on a proportionate volume basis.

Payment

00645.90 Payment - The accepted quantities of recycled asphalt products will be paid for at the contract unit price, per square yard, for the item "Recycled Asphalt Products in Base, _____ Inches Thick".

The thickness of the recycled asphalt products will be inserted in the blank.

Payment will be payment in full for hauling and placing the Agency provided materials, and for furnishing all equipment, labor, and incidentals necessary to complete the work as specified.

No separate or additional payment will be made for water used to obtain compaction or in care of the work.