

## Section 4121. Granular Subbase Material

### 4121.01 DESCRIPTION.

- Crushed stone,
- Gravels of which 30% or more of the particles retained on the 3/8 inch (9.5 mm) sieve have at least one fractured face as defined in [Materials I.M. 305](#),
- Crushed PCC pavement meeting the requirements of [Materials I.M. 210](#), or
- Uniformly blended combinations of these materials.

### 4121.02 GRADATION.

- A. **Crushed material:** meet the requirements for Gradation No. 12a of the [Aggregate Gradation Table, Article 4109.02](#).
- B. **Gravel:** meet the requirements for Gradation No. 12b of the [Aggregate Gradation Table, Article 4109.02](#).

### 4121.03 QUALITY.

The requirements of Table 4121.03-1 apply to the individual virgin aggregates before combining:

Table 4121.03-1: Coarse Aggregate Quality (Virgin Material)

| Coarse Aggregate Quality                                                                                                                                          | Maximum Percent Allowed | Test Method                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------|
| Abrasion                                                                                                                                                          | 50                      | AASHTO T 96                                            |
| Alumina <sup>(a)</sup>                                                                                                                                            | 1.5                     | Office of Materials Test Method No. Iowa 222           |
| A Freeze                                                                                                                                                          | 25                      | Office of Materials Test Method No. Iowa 211, Method A |
| (a) If the Alumina value fails, determine the A Freeze value for specification compliance. Office of Materials Test Method No. Iowa 222 does not apply to gravel. |                         |                                                        |