### Module Weights (LBS)

<table>
<thead>
<tr>
<th>Number</th>
<th>Module</th>
<th>200</th>
<th>400</th>
<th>700</th>
</tr>
</thead>
<tbody>
<tr>
<td>B1</td>
<td>2000</td>
<td>1400</td>
<td>2100</td>
<td>1400</td>
</tr>
<tr>
<td>B2</td>
<td>2100</td>
<td>1400</td>
<td>2100</td>
<td>1400</td>
</tr>
</tbody>
</table>

**Note:**
- Provide three components for 2, 4, or 7 cubic feet container:
  - 1) A 14 C.F., yellow outer container.
  - 2) A black lid securely locking over the top lip of the container.

**Fill Chart**

<table>
<thead>
<tr>
<th>Distance from top edge</th>
<th>200</th>
<th>400</th>
<th>700</th>
</tr>
</thead>
<tbody>
<tr>
<td>5&quot;</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>4&quot;</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>3&quot;</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>0&quot;</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

### Typical Module Construction Detail

- **Type B Attenuation Device**
  - **Number of Components:** 2
  - **Description:**
    - A 14 cubic feet container.
    - A black lid securely locking over the top lip of the container.

### Notes:
- **Materials:**
  - A use modules manufactured from high-density polyethylene material which shall sustain your impact.
  - Fill modules with class 43 aggregate meeting NDDOT Standard Specifications aggregate requirements. Use fill with a unit weight of at least 100 pounds per cubic foot. Use fill with a moisture content of 2% or less when left over winter.

- **Fill Chart**
  - Provide modules in two sizes containing volumes of either 2, 4, 7, 14, or 21 cubic feet minimum.
  - Provide three components for 2, 4, and 7 cubic foot containers:
    - 1) A 14 C.F., yellow outer container.
    - 2) A black lid securely locking over the top lip of the container.

- **Temporary Installations**
  - Use Type B reflective sheeting (as specified in the NDDOT Standard Specifications) directly on the outer container of the barrier attenuation device facing traffic, following the details above.
  - If possible, apply the sheet to a metallic sheet and attach it with approved fasteners.
  - Apply Type IV reflective sheeting (as specified in the NDDOT Standard Specifications) directly to the outer container of the barrier attenuation device facing traffic, following the details above.

- **Reflective Sheet Detail**
  - Use 3" orange sheeting for temporary installations, and 3" yellow sheeting for permanent installations.

- **Type B Layout**
  - Provide two components for the 14 cubic foot container:
    - 1) A 14 C.F., yellow outer container.
    - 2) A black lid securely locking over the top lip of the container.
  - Provide two components for the 21 cubic foot container:
    - 1) A 21 C.F., black lid modular.
    - 2) A black lid securely locking over the top lip of the container.

- **For permanent installations use: Traffic Attenuation Devices manufactured by Traffic Devices, Inc. of San Clemente, CA, or approved equal modules.**
- **As an option, place attenuation devices on 3'0" maximum thickness pallets to facilitate maintenance.**

- **Specifications:**
  - **Dimensions:**
    - Length: 4.0 to 8.0 meters
    - Width: 1.0 to 1.8 meters
    - Height: 2.2 to 2.8 meters
  - **Weight:**
    - Minimum weight: 4000 kg
    - Maximum weight: 6000 kg

- **Type A Attenuation Device**
  - **Number of Components:** 2
  - **Description:**
    - A 14 cubic feet container.
    - A black lid securely locking over the top lip of the container.

- **Type B Layout**
  - Provide any required layouts and details from other sand filled attenuation module manufacturers which differ from those shown here.

- **Energite attenuation barrels manufactured by Energy Absorption Systems of Chicago, IL, TrafFix barrels manufactured by TrafFix Devices, Inc. of San Clemente, CA, or approved equal modules.**

- **Traffic Shoulder and 2' behind the devices.**

- **Note:**
  - Angle attenuation devices 10 degrees towards traffic when placed at points offset from roadway.

- **Section A-A (Type B Layout)**
  - Create flat area between the traffic shoulder and 2' behind the devices.

- **Cone Inserts:**
  - Place cone inserts inside the 14 cubic foot container.

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- **Type B Reflection Sheet:**
  - Use 3" orange sheeting for temporary installations, and 3" yellow sheeting for permanent installations.

- **Type IV Reflective Sheet:**
  - Apply Type IV reflective sheeting (as specified in the NDDOT Standard Specifications) directly to the outer container of the barrier attenuation device facing traffic, following the details above.

- **Traffic Attenuation Devices manufactured by Traffic Devices, Inc. of San Clemente, CA, or approved equal modules.**

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  - **Dimensions:**
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- **Type A Attenuation Device**
  - **Number of Components:** 2
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  - Place cone inserts inside the 14 cubic foot container.

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  - **Weight:**
    - Minimum weight: 4000 kg
    - Maximum weight: 6000 kg

- **Type A Attenuation Device**
  - **Number of Components:** 2
  - **Description:**
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  - **Weight:**
    - Minimum weight: 4000 kg
    - Maximum weight: 6000 kg

- **Type A Attenuation Device**
  - **Number of Components:** 2
  - **Description:**
    - A 14 cubic feet container.
    - A black lid securely locking over the top lip of the container.