APPLE PRODUCT CLASSIFICATION
Brochure based on UNECE standards

SUPPORTED BY:
**EXTRA CLASS**

- **Granny Smith**
  - Skin marks.
  - No marks on the skin

- **Golden Delicious**
  - Russet.
  - Presence in less than 1 cm²

- **Red Delicious**
  - Skin marks.
  - No marks on the skin

- **Red Delicious**
  - Russet.
  - Presence in less than 1 cm²

- **Granny Smith**
  - Sunburn.
  - No change in colour

- **Golden Delicious**
  - Hail damage.
  - Presence in less than 1 cm²

- **Golden Delicious**
  - Blush.
  - No blush allowed

**Tolerance:** A total tolerance of 5 % by number or weight of apples not satisfying requirements of Class Extra, but meeting those of Class I is allowed.
**EXTRA CLASS**

- **Granny Smith**
  - Hail damage: No hail damage

- **Golden Delicious**
  - Hail damage: No hail damage

- **Granny Smith**
  - Skin color: Green color

- **Golden Delicious**
  - Skin color: Color between green and yellow

- **Red Delicious**
  - Skin color: More than 80% of the skin in red color

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**Tolerance:** A total tolerance of 5% by number or weight of apples not satisfying requirements of Class Extra, but meeting those of Class I is allowed.
**CLASS I**

- **Granny Smith**
  - Skin marks
  - Marks not longer than 1 cm

- **Red Delicious**
  - Skin marks
  - Marks not longer than 1 cm

- **Golden Delicious**
  - Sunburn
  - Slight color fading

- **Granny Smith**
  - Sunburn
  - Slight color fading

- **Golden Delicious**
  - Sunburn
  - Slight color fading

- **Granny Smith**
  - Sunburn
  - Slight color change

- **Red Delicious**
  - Sunburn
  - Slight color change

- **Golden Delicious**
  - Sunburn
  - Slight color change

- **Golden Delicious**
  - Sunburn
  - Slight color fading

- **Red Delicious**
  - Sunburn
  - Slight color fading

**Tolerance:** A total tolerance of 10% by number or weight of apples not satisfying requirements of Class I, but meeting those of Class II is allowed.
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CLASS II

- **Granny Smith**
  - Hail damage.
  - Healed marks of diameter less than 0.5cm²

- **Red Delicious**
  - Hail damage.
  - Healed marks of diameter less than 0.5cm²

- **Golden Delicious**
  - Skin color.
  - Less green and more yellow

- **Golden Delicious**
  - Fruit shape.
  - Regular or semi squat shape

- **Red Delicious**
  - Skin color.
  - More than 70% of the skin in red color

- **Granny Smith**
  - Fruit shape.
  - Regular or semi squat shape

**Tolerance:** A total tolerance of 10% by number or weight of apples not satisfying requirements of Class I, but meeting those of Class II is allowed.
NOT ALLOWED FOR CLASSIFICATION

- **Granny Smith**
  - Skin marks.
  - Marks longer than 1 cm

- **Red Delicious**
  - Skin marks.
  - Marks longer than 1 cm

- **Golden Delicious**
  - Sunburn.
  - Considerable change of color

- **Red Delicious**
  - Sunburn.
  - Considerable change of color

- **Granny Smith**
  - Hail damage.
  - Healed damage of diameter larger than 1 cm²

- **Red Delicious**
  - Hail damage.
  - Healed damage of diameter larger than 1 cm²

- **Granny Smith**
  - Skin color.
  - More yellow than green

- **Golden Delicious**
  - Skin color.
  - Yellow color

- **Red Delicious**
  - Skin color.
  - Less than 70% of the skin in red color
PACKAGING

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PROPER PACKAGING

- Proper packaging of apples in carton box
  THE VISIBLE PART OF THE PRODUCT SHOULD UNIFORMLY REPRESENT THE WHOLE CONTENT

- Proper positioning of crates on a palette

- Packaging of extra class apples goes in layers

IMPROPER PACKAGING

- Improper classification and packaging

- Improper packaging
  PRODUCT NOT SUITABLE FOR CLASSIFICATION AND TOO MUCH PRODUCT IN A CARTON BOX

ANNOTATION ON THE PACKAGING

APPLE CLASSIFICATION

<table>
<thead>
<tr>
<th>VARIETY</th>
<th>Idared</th>
<th>Golden Delicious</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red Delicious</td>
<td>Jonagold</td>
<td>Red Delicious</td>
</tr>
<tr>
<td>Granny Smith</td>
<td>Gloster</td>
<td>Mutsu</td>
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<tr>
<td>Red Falstaff</td>
<td>Jonagored</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>CLASS</th>
<th>Ekstra I II</th>
</tr>
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</table>

<table>
<thead>
<tr>
<th>CONTENT</th>
<th>Weight Size</th>
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CLASSIFICATION BY SIZE & WEIGHT

PROVISIONS CONCERNING SIZING OF APPLES

The size of apples is determined either by the maximum diameter or by weight.

For all varieties and for all classes the minimum size is 60 mm, if measured by diameter, or 90 g, if measured by weight.

UNIFORMITY IN WEIGHT

For fruit sized by diameter, the difference in diameter between fruit in the same package shall be limited to:

- 5 mm for all classes of fruit packed in rows and layers
- 10 mm for Class I and II of fruit packed loose in the package or in consumer packages.

For “Extra” Class and Class I apples packed in rows and layers, the difference in weight between the lightest and the heaviest fruit in the same package shall be limited to:

<table>
<thead>
<tr>
<th>Range (g)</th>
<th>Weight difference (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>70-90</td>
<td>15 g</td>
</tr>
<tr>
<td>91-135</td>
<td>20 g</td>
</tr>
<tr>
<td>136-200</td>
<td>30 g</td>
</tr>
<tr>
<td>201-300</td>
<td>40 g</td>
</tr>
<tr>
<td>&gt; 301</td>
<td>50 g</td>
</tr>
</tbody>
</table>

There is no uniformity requirement by weight for Class II fruit packed loose in the package or in consumer packages.

SIZING TOLERANCES

In addition to ranges, for all classes: a total tolerance of 10 per cent, by number or weight, of apples not satisfying the requirements as regards sizing is allowed.