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ISO/TC 122

Secretariat: JISC

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## Packaging — Distribution packaging — Graphical symbols for handling and storage of packages

*Emballages — Marquages graphiques relatifs à la manutention des marchandises*

ICS: 55.020;01.080.99

### ISO/CEN PARALLEL PROCESSING

This draft has been developed within the International Organization for Standardization (ISO), and processed under the **ISO lead** mode of collaboration as defined in the Vienna Agreement.

This draft is hereby submitted to the ISO member bodies and to the CEN member bodies for a parallel five month enquiry.

Should this draft be accepted, a final draft, established on the basis of comments received, will be submitted to a parallel two-month approval vote in ISO and formal vote in CEN.

To expedite distribution, this document is circulated as received from the committee secretariat. ISO Central Secretariat work of editing and text composition will be undertaken at publication stage.

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 780 was prepared by Technical Committee ISO/TC 122, Packaging.

This fifth edition cancels and replaces the fourth edition (ISO 780:1997), which has been technically revised.

All the 17 graphical symbols in this International Standard have already been modified to accord with IEC 80416-1:2008 *Basic principles for graphical symbols for use on equipment-Part 1: Creation of graphical symbols for registration* and submitted to TC 145/SC 3 for registration on ISO 7000 *Graphical symbols for use on equipment – Registered symbols*.

Some of the major modification points are indicated as follows:

### 1) Title:

New: Packaging – Distribution packages – Graphical symbols for handling and storage of packages  
Old: Packaging – Pictorial marking for handling of goods

“Distribution packages” is preferred to “transport packages” in this standard. The reason is that “transport packages” does not include “stored” packages, for example, in the practice of “transport packages for dangerous goods”. ISO 780 concerns with packages during storage as well as those during transport.

“Pictorial marking” is replaced by “graphical symbols” to coincide with TC145’s way of addressing pictorial marking.

### 2) Introduction:

Statements on safety issue and hand-written symbols have been added.

### 3) Handling instructions:

The order of the graphical symbols has been re-arranged in the following order.

1. Graphical symbols used for large-sized packages
2. Graphical symbols used for middle and small-sized packages
  - For all types of handling
  - For manual handling
  - For handling using machines

3. Graphical symbols used for both transport and storage
4. Graphical symbols used for storage

To make this standard easier to use, the layout of the table has been changed and each graphical symbol has its Reference No. to ISO 7000, Meaning, Requirement, Note and example of application.

## Introduction

Packages are often marked with handling instructions in the language of the country of origin. While this may safeguard the consignment in the areas using the same language, it is of little value for goods consigned to, or through, countries using different languages, and of no value at all if people handling the packages are illiterate.

Graphical symbols offer the best possibility of conveying the consignor's intention and their adoption will; therefore, undoubtedly reduce loss and damage through incorrect handling. Moreover, graphical symbols help ensure safety of workers, who cannot grasp such important information as structure, gravity centre, property, and strength of a package while handling distribution packages.

The graphical symbols specified are in accordance with the rules of ISO/TC 145/SC 3, *Graphical symbol for use on equipment*.

The use of graphical symbols does not provide any guarantee of satisfactory handling; safely and properly protective packaging is therefore of primary importance.

Distribution packages will deteriorate as time passes and sometimes cannot withstand normal handling before they reach the final destination. In such case, we need to decide whether to stop shipping and storing them or to continue to use them by putting proper graphical symbols on them. In any case, handwritten symbols are partially accepted in this standard so that the proper symbols can be added to do the needful on the spot.

# Packaging – Distribution packaging – Graphical symbols for handling and storage of packages

## 1 Scope

This International Standard specifies a set of graphical symbols conventionally used for marking of distribution packages in their physical distribution chain to convey handling instructions. The graphical symbols should be used only when necessary.

This International Standard is applicable to packages containing any kind of goods, but does not include instructions specific to handling of dangerous goods.

## 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 2331 *Fork lift trucks – Hook – on type fork arms – Vocabulary*

ISO 4306-1 *Cranes – Vocabulary –Part 1: General*

ISO 5053 *Powered industrial trucks – Terminology*

ISO 7000 *Graphical symbols for use on equipment – Registered symbols.*

ISO 21067 *Packaging - Vocabulary*

## 3 Graphical Symbols

In order to ensure safe, proper and efficient handling of distribution packages, display, colour, size, number and position of graphical symbols shall be considered.

### 3.1 Display of graphical symbols

For large packages, graphical symbols should preferably be stencilled directly on the package or may appear on a label. It is recommended that the graphical symbols should be printed, painted or otherwise reproduced as specified in this International Standard. They need not be framed by border lines.

The graphical design of each symbol shall have only one meaning; symbols are purposely designed so that they can also be stencilled without changing the graphics. The change of the graphics, however, is accepted to facilitate the forming of stencil.

### 3.2 Colour of graphical symbols

The colour used for graphical symbols shall be black.

If the colour of the package is such that the black symbol would not show clearly, a panel of a suitable contrasting colour, preferably white, shall be provided as a background.

Care shall be taken to avoid the use of colours such as red, orange or yellow, which could result in confusion with the labelling of dangerous goods.

### 3.3 Size of graphical symbols

For normal purposes the overall height of the graphical symbols shall be 100mm, 150mm or 200mm.

Depending on the size or shape of the package; however, the size of the graphical symbols may be larger or smaller provided that the visibility of the graphical symbols is retained.

Different horizontal/vertical ratio may be applied to enhance the visibility of the graphical symbols provided that the original meaning is retained.

### 3.4 Number of graphical symbols

For graphical symbols No. 1, 2, 3, 8, and 13, how many graphical symbols shall be placed for a package is specified in Clause 4.

A package shall have a minimum number of types of graphical symbols as needed.

### 3.5 Position of graphical symbols

For graphical symbols No. 1, 2, 3, 5, 7, 8, 10 and 13, at which position graphical symbols shall be placed on a package is specified in Clause 4.

## 4 Meaning and requirements of the graphical symbols

Meaning and requirements for each symbol shall be indicated on distribution packages by using the corresponding graphical symbols given in Table 1-4.

### 4.1 Graphical symbols used for large-sized packages

See Table 1

### 4.2 Graphical symbols used for middle and small-sized packages

#### - For all types of handling

See Table 2.1

#### - For manual handling

See Table 2.2

#### -For handling using machines

See Table 2.3

### 4.3 Graphical symbols used for both transport and storage

See Table 3

### 4.4 Graphical symbols used for storage

See Table 4



Table 1 Graphical symbols used for large-sized packages

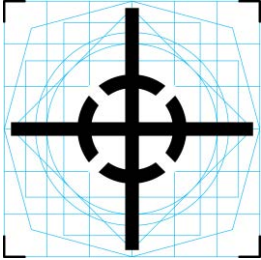
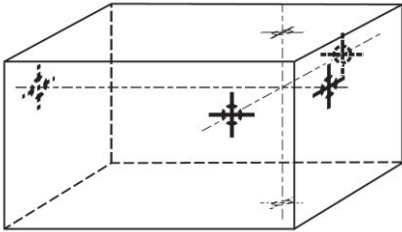
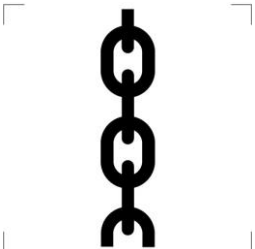
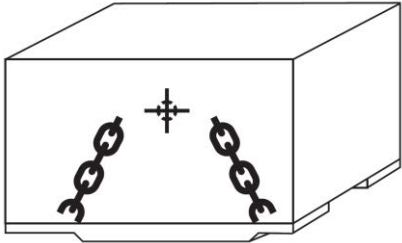
<b>Symbol Number and title</b>	<b>No.1 CENTRE OF GRAVITY</b>
<p><b>Graphical Symbol:</b></p>  <p>Pr13-226R1 or No 1R</p>	<p><b>Reference :</b> ISO 7000, No.0627</p> <p><b>Meaning:</b> This is the centre of gravity of the distribution package which will be handled as a single unit.</p> <p><b>Requirements:</b></p> <ul style="list-style-type: none"> <li>• Heavy packages shall be marked with this symbol.</li> <li>• Where possible, this graphical symbol shall be placed on all six sides but at least on the four lateral sides relating to the actual location of the centre of gravity.</li> <li>• This graphical symbol shall be applied to in correct positions and in appropriate places in order to convey the meaning clearly and fully.</li> </ul> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>• When heavy cargo tips over during handling for shipping, it could damage not only the product but also workers, causing a fatal accident.</li> <li>• To determine the position of the wire rope slings on the package, it is necessary to find the centre of gravity of the package as well as to know the reinforced structure of the sheathed create.</li> </ul>
<p><b>Example of application:</b></p> 	
<b>Symbol Number and title</b>	<b>No.2 SLING HERE</b>
<p><b>Graphical Symbol:</b></p>  <p>Pr13-224 or No 2</p>	<p><b>Reference:</b> ISO 7000, No.0625</p> <p><b>Meaning:</b> Slings shall be placed where indicated for lifting the distribution package.</p> <p><b>Requirements:</b></p> <ul style="list-style-type: none"> <li>• Heavy packages shall be marked with this symbol.</li> <li>• This graphical symbol(s) shall be placed on two opposite faces of the package.</li> <li>• The graphical symbol(s) shall be placed so that the package can be kept in a horizontal position.</li> <li>• This graphical symbol shall be applied to in correct positions and in appropriate places in order to convey the meaning clearly and fully.</li> </ul> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>• When a sheathed crate is lifted up with a crane while the wire rope slings are not properly positioned, the upper frame member of the crate or the skid base collapses, causing a crucial falling accident.</li> </ul>
<p><b>Example of application</b></p> 	

Table 2.1 Graphical symbols used for middle and small-sized packages  
For all types of handling


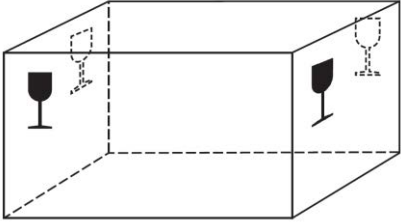
Symbol Number and title	No. 3 FRAGILE, HANDLE WITH CARE
<p><b>Graphical Symbol:</b></p>  <p>Pr13-220 or No 3</p>	<p><b>Reference:</b> ISO 7000, No.0621</p> <p><b>Meaning:</b> Contents of the distribution package are fragile therefore it shall be handled with care.</p> <p><b>Requirements:</b></p> <ul style="list-style-type: none"> <li>• In principle, this graphical symbol should be placed either near the left-hand or the right-hand upper corner on all four upright sides of the package.</li> <li>• If there is not enough space for the graphical symbols to be located on all four sides of the package, they shall be placed at least on the upper corners of two panels.</li> <li>• The use of the graphical symbol shall be limited to fragile products that cannot be protected by normal packaging.</li> <li>•</li> </ul> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>• ....This symbol should be used in the orientation shown.</li> </ul>
<p><b>Example of application:</b></p>  <p>* This is an example of the symbols placed near the left-hand upper corner on four upright side.</p>	

Table 2.2 Graphical symbols used for middle and small-sized packages  
For manual handling

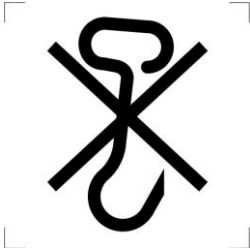


<b>Symbol Number and title</b>	<b>No. 4 USED NO HAND HOOKS</b>
<p><b>Graphical Symbol:</b></p>  <p>Pr13-221 or No 4</p>	<p><b>Reference:</b> ISO 7000, No.0622</p> <p><b>Meaning:</b> Hand hooks are prohibited for handling the distribution package.</p> <p><b>Requirements:</b></p> <ul style="list-style-type: none"> <li>The use of this graphical symbol shall be limited to the case where it is necessary.</li> </ul> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>The prohibition symbol can be hand written.</li> </ul>
<p><b>Example of application:</b></p> <p>N/A</p>	
<b>Symbol Number and title</b>	<b>No. 5 DO NOT USE HAND TRUCK HERE</b>
<p><b>Graphical Symbol:</b></p>  <p>Pr13-227 or No 5</p>	<p><b>Reference:</b> ISO 7000, No.0629</p> <p><b>Meaning:</b> Hand trucks shall not be placed on this side when handling the distribution package.</p> <p><b>Requirements:</b></p> <ul style="list-style-type: none"> <li>The use of this graphical symbol shall be limited to the case where it is necessary.</li> </ul> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>The prohibition symbol can be hand written.</li> </ul>
<p><b>Example of application</b></p> <p>N/A</p>	

Table 2.3 Graphical symbol for mechanical handling

<p><b>Symbol Number and title</b></p>	<p><b>No. 6 USE NO FORKS</b></p>
<p><b>Graphical Symbol:</b></p> <div style="text-align: center;">  <p>Pr13-236 or No 6</p> </div>	<p><b>Reference:</b> ISO 7000, No.2406</p> <p><b>Meaning:</b> Distribution package should not be handled or moved by a fork-type of lifting devices.</p> <p><b>Requirements:</b></p> <ul style="list-style-type: none"> <li>· The use of this graphical symbol shall be limited to the case where it is necessary.</li> </ul> <p><b>Note:</b></p>
<p><b>Example of application:</b></p> <p style="text-align: center;">N/A</p>	<ul style="list-style-type: none"> <li>· The prohibition symbol can be hand written.</li> <li>·</li> </ul>

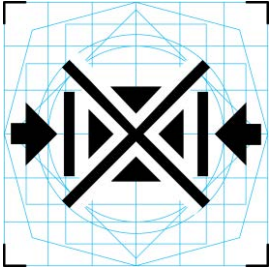
<p><b>Symbol Number and title</b></p>	<p><b>No. 7 DO NOT CLAMP AS INDICATED</b></p>
<p><b>Graphical Symbol:</b></p> <div style="text-align: center;">  <p>Pr13-234R1 or No 7R</p> </div>	<p><b>Reference:</b> ISO 7000, No.2404</p> <p><b>Meaning:</b> Distribution package should not be handled by the clamps on the sides indicated when handling with clamp-type lifting devices.</p> <p><b>Requirements:</b></p> <ul style="list-style-type: none"> <li>· This graphical symbol shall be used when it is necessary to indicate the location that shall NOT be clamped.</li> </ul> <p><b>Note:</b></p>
<p><b>Example of application:</b></p> <p style="text-align: center;">N/A</p>	<ul style="list-style-type: none"> <li>· The prohibition symbol can be hand written.</li> </ul>

Table 2.3 Graphical symbol for mechanical handling (Continued)

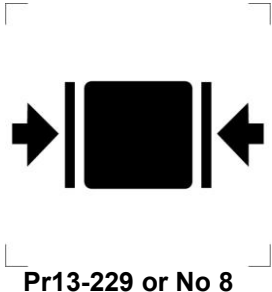
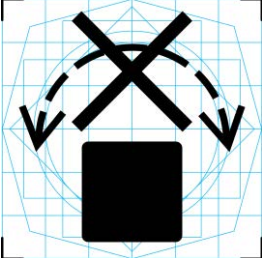
<b>Symbol Number and title</b>	<b>No. 8 CLAMP AS INDICATED</b>
<p data-bbox="188 349 432 383"><b>Graphical Symbol:</b></p> <div data-bbox="280 416 552 707" style="text-align: center;">  <p data-bbox="300 680 517 707">Pr13-229 or No 8</p> </div>	<p data-bbox="659 387 1034 421"><b>Reference:</b> ISO 7000, No.0631</p> <p data-bbox="659 454 1398 546"><b>Meaning:</b> Clamps shall be placed on the sides indicated for handling the distribution package using clamp-type lifting devices.</p> <p data-bbox="659 580 847 613"><b>Requirements:</b></p> <ul data-bbox="659 613 1477 909" style="list-style-type: none"> <li>• Only appropriately marked packages should be handled by clamps</li> <li>• This graphical symbol shall be positioned on two opposite faces of the package so that it is in the visual range of the clamp truck operator when approaching to carry out operation</li> <li>• This graphical symbol shall not be marked on those faces of the package intended to be gripped by the clamps.</li> <li>• This graphical symbol shall be used when it is necessary to indicate the location that shall be clamped.</li> <li>•</li> </ul>
<p data-bbox="188 734 496 768"><b>Example of application:</b></p> <p data-bbox="379 837 437 871" style="text-align: center;">N/A</p>	

Table 3 Graphical symbols used for both transport and storage

<b>Symbol Number and title</b>	<b>No. 9 DO NOT ROLL</b>
<p><b>Graphical Symbol:</b></p>  <p>Pr13-235R1 or No 9R</p>	<p><b>Reference:</b> ISO 7000, No.2405</p> <p><b>Meaning:</b> Distribution package shall not be rolled or turned over.</p> <p><b>Requirements:</b></p> <ul style="list-style-type: none"> <li>The use of this graphical symbol shall be limited to the case where it is necessary.</li> </ul>
<p><b>Example of application:</b></p> <p>N/A</p>	


<b>Symbol Number and title</b>	<b>No. 10 KEEP AWAY FROM RAIN</b>
<p><b>Graphical Symbol:</b></p>  <p>Pr13-225 or No 10</p>	<p><b>Reference:</b> ISO 7000, No.0626</p> <p><b>Meaning:</b> Distribution package shall be kept away from rain and be kept in dry conditions.</p> <p><b>Requirements:</b></p> <ul style="list-style-type: none"> <li>The use of this graphical symbol shall be limited to the case where it is necessary.</li> </ul> <p><b>Note:</b> This symbol should be used in the orientation shown.</p>
<p><b>Example of application:</b></p> <p>N/A</p>	

Table 3 Graphical symbols used for both transport and storage (Continued)



<b>Symbol Number and title</b>	<b>No. 11 KEEP AWAY FROM SUNLIGHT</b>
<p data-bbox="188 383 625 421"><b>Graphical Symbol:</b></p> <div data-bbox="268 450 544 734" style="text-align: center;">  <p data-bbox="293 719 518 745">Pr13-223 or No 11</p> </div>	<p data-bbox="659 421 1034 450"><b>Reference:</b> ISO 7000, No.0624</p> <p data-bbox="659 483 1294 544"><b>Meaning:</b> Distribution package shall not be exposed to sunlight.</p> <p data-bbox="659 577 1417 667"><b>Requirements:</b></p> <ul data-bbox="659 607 1417 667" style="list-style-type: none"> <li>• The use of this graphical symbol shall be limited to the case where it is necessary.</li> </ul> <p data-bbox="659 701 1326 761"><b>Note:</b> This symbol should be used in the orientation shown</p>
<p data-bbox="188 763 625 801"><b>Example of application:</b></p> <p data-bbox="379 875 437 904" style="text-align: center;">N/A</p>	
<b>Symbol Number and title</b>	<b>No. 12 PROTECT FROM RADIOACTIVE SOURCES</b>
<p data-bbox="188 1160 625 1198"><b>Graphical Symbol:</b></p> <div data-bbox="268 1227 544 1512" style="text-align: center;">  <p data-bbox="293 1503 518 1529">Pr13-231 or No 12</p> </div>	<p data-bbox="659 1198 1034 1227"><b>Reference:</b> ISO 7000, No.2401</p> <p data-bbox="659 1261 1409 1357"><b>Meaning:</b> Contents of the distribution package may deteriorate or may be rendered totally unusable by penetrating ionizing radiation.</p> <p data-bbox="659 1391 1417 1480"><b>Requirement:</b></p> <ul data-bbox="659 1420 1417 1480" style="list-style-type: none"> <li>• The use of this graphical symbol shall be limited to the case where it is necessary.</li> </ul> <p data-bbox="675 1514 1334 1574"><b>Note:</b> This symbol should be used in the orientation shown.</p>
<p data-bbox="188 1541 625 1579"><b>Example of application:</b></p> <p data-bbox="379 1653 437 1682" style="text-align: center;">N/A</p>	

Table 3 Graphical symbols used for both transport and storage (Continued)

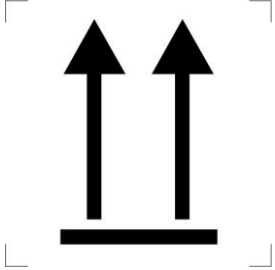
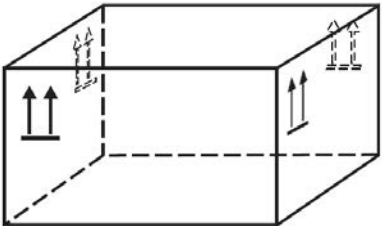
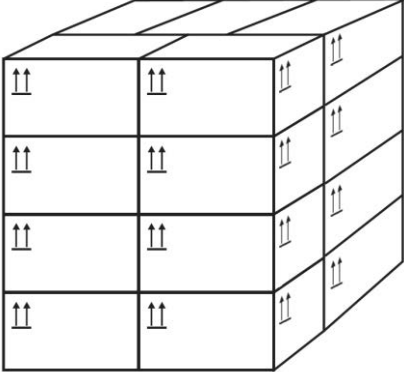
Symbol Number and title	No. 13 THIS WAY UP
<p><b>Graphical Symbol:</b></p>  <p>Pr13-222 or No 13</p>	<p><b>Reference:</b> ISO 7000, No.0623</p> <p><b>Meaning:</b> This is the correct upright position of the distribution package for transport and/or storage.</p> <p><b>Requirements:</b></p> <ul style="list-style-type: none"> <li>• In principle, this graphical symbol should be placed either near the left-hand or the right-hand upper corner on all four upright sides of the package. (a)</li> <li>• If there is not enough space for the graphical symbols to be located on all four sides of the package, they shall be placed at least on the upper corners of two panels.</li> <li>• When distribution packages are formed into a unit load, graphical symbol shall be located so as to ensure they are visible. (b)</li> <li>• The use of this graphical symbol shall be limited to the case where it is necessary.</li> </ul> <p><b>Note:</b> This symbol shall be used in the orientation shown.</p>
<p><b>Example of application:</b></p>  <p>a)</p>  <p>b)</p>	



Table 3 Graphical symbols used for both transport and storage (Continued)


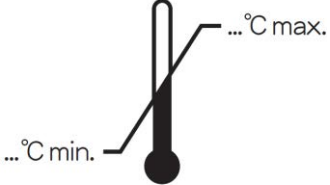
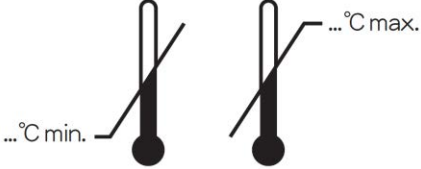
<b>Symbol Number and title</b>	<b>No.14 TEMPERATURE LIMITS</b>
<p><b>Graphical Symbol:</b></p>  <p>Pr13-230 or No 14</p>	<p><b>Reference:</b> ISO 7000, No.0632</p> <p><b>Meaning:</b> Distribution package shall be stored, transported, and handled within which temperature limits indicated.</p> <p><b>Requirements:</b></p> <ul style="list-style-type: none"> <li>• This graphical symbol shall be used only for the distribution package that requires temperature control.</li> <li>• The use of this graphical symbol shall be limited to the case where it is necessary.</li> </ul>
<p><b>Example of application:</b></p>  <p>a)</p>  <p>b)</p>	

Table 4 Graphical symbols used for storage

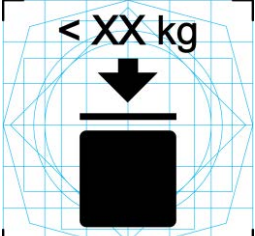


Symbol Number and title	No. 15 STACKING LIMIT BY MASS
<p><b>Graphical Symbol:</b></p>  <p>Pr13-228R1 or No 15R</p>	<p><b>Reference:</b> ISO 7000, No.0630</p> <p><b>Meaning:</b> Maximum stacking load which may be stacked on the distribution package</p> <p><b>Requirements:</b></p> <ul style="list-style-type: none"> <li>• Maximum load mass permitted to be stacked on the bottom package shall be indicated to ensure safe stacking and also to improve loading and storage efficiency.</li> <li>• In order to ensure quality of shipping and storing of distribution packages, it is recommendable that the figure indicating the maximum load mass permitted to be stacked on the bottom package be corrected by hand on site if deterioration of the packages is detected.</li> </ul> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>• 1) Correction of the figure can be made by hand.</li> <li>• ...2) This symbol shall be used in the orientation shown.</li> </ul>
<p><b>Example of application:</b></p> <p>N/A</p>	
Symbol Number and title	No. 16 STACKING LIMIT BY NUMBER
<p><b>Graphical Symbol:</b></p>  <p>Pr13-233 or No 16</p>	<p><b>Reference:</b> ISO 7000, No.2403</p> <p><b>Meaning:</b> Maximum number of identical packages which may be stacked on the bottom package, where "n" is the limiting number.</p> <p><b>Requirements:</b></p> <ul style="list-style-type: none"> <li>• Maximum number of packages permitted to be stacked on the bottom package shall be indicated to ensure safe stacking and also to improve loading and storage efficiency.</li> <li>• In order to ensure quality of shipping and storing of distribution packages, it is recommendable that the figure indicating the maximum number of packages permitted to be stacked on the bottom package be corrected by hand on site if deterioration of the packages is detected.</li> </ul> <p><b>Note</b></p> <ul style="list-style-type: none"> <li>• 1) Number "n" does not include the bottom package.</li> <li>• 2) Correction of the figure can be made by hand.</li> <li>• 3) The prohibition symbol can be hand written.</li> <li>• ...4) This symbol shall be used in the orientation shown.</li> </ul>
<p><b>Example of application:</b></p> <p>N/A</p>	

Table 4 Graphical symbols used for storage (Continued)

<b>Symbol Number and title</b>	<b>No. 17 DO NOT STACK</b>
<p data-bbox="188 383 432 416"><b>Graphical Symbol:</b></p> <div data-bbox="295 443 539 719" style="text-align: center;">  <p data-bbox="295 689 539 719">Pr13-232 or No 17</p> </div>	<p data-bbox="679 421 1054 454"><b>Reference:</b> ISO 7000, No.2402</p> <p data-bbox="679 483 1485 577"><b>Meaning :</b> Stacking of the distribution package is not allowed and no load shall be placed on the distribution package.</p> <p data-bbox="679 607 1485 757"><b>Requirements :</b></p> <ul data-bbox="679 640 1485 757" style="list-style-type: none"> <li>• In order to ensure quality of shipping and storing of distribution packages, it is recommendable that the prohibition symbol be added by hand on site if deterioration of the packages is detected.</li> </ul>
<p data-bbox="188 763 496 797"><b>Example of application:</b></p> <p data-bbox="389 875 445 909" style="text-align: center;">N/A</p>	<p data-bbox="679 790 751 824"><b>Note:</b></p> <ul data-bbox="679 824 1310 887" style="list-style-type: none"> <li>• The prohibition symbol can be hand written.</li> <li>• This symbol shall be used in the orientation shown.</li> </ul>

## Bibliography

- [1] IEC 80416-1:2008 Basic principles for graphical symbols for use on equipment—Part 1: Creation of graphical symbols for registration
- [2] ISO 80416-2: 2001 Basic principles for graphical symbols for use on equipment – Part 2: Form and use of arrows