


Rev. 2.0	EC100 Standard for 2D Documentation			
	Replaces AA700i			
<u>Doc. number</u>	<u>Status</u>	<u>Responsibility</u>	<u>Date</u>	<u>Page</u>
EC100	Released	Ecotec standardization group	15-03-2023	1/(3)

Document releases

Version	Date	Created by	Checked by	Approved by	Remarks
1.0	22.02.2022	Jerzy Stachów	Ecotec standardization group	Ecotec standardization group	Initial release
2.0	24.02.2023	Michał Grzegorzycy Thorben Niemeier Cezary Bureta	Ecotec standardization group	Ecotec standardization group	Change of ISO 2768-1 and ISO 2768-2 to ISO 2768:1989 – mK; Old unsorted table deleted ; some titles changed to the original designation ; changed wrong ISO 1090 to EN 1090 ; changed column “remarks” to “Valid tolerance class” ; changed document header so that is the same on every page

Subject & Purpose

This instruction contains a list of norms being valid for all drawings and which are to be considered if no other requirements are indicated in the drawing.

The purpose of this instruction is, that all drawings are created under the same conditions, and that the drawn parts are manufactured according to the requirements.


Scope & Responsibilities

- Employees engineering: for new drawings
- Employees purchase department: regarding the purchase of drawing parts which are additionally intended as a documentation basis for suppliers
- Suppliers: for parts production


Description

Standard contains the Norms which are generally taken into account as Norms common to Design Departments in Ecotec Group when preparing the documentation and construction. The version of the norm in the latest release at the date of the last drawing revision is valid.

Norms not listed below should be raised as required in separate, local documents or standards adequate to this document.

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Norm	Title	Valid tolerance class
Geometrical product specifications (GPS) / Technical drawings		
ISO 8015	Geometrical product specifications (GPS) - Fundamentals - Concepts, principles and rules	
ISO 286	GPS - ISO code system for tolerances on linear sizes	
EN ISO 1101	GPS - Geometrical tolerancing - Tolerances of form, orientation, location and run-out	
ISO 1302	GPS - Indication of surface texture in technical product documentation	
DIN 30630	Technical drawings - General tolerances in mechanical engineering - Tolerance rule and general plan	
EN ISO 5455	Technical drawings; scales	
EN ISO 5457	Technical product documentation - Sizes and layout of drawing sheets	
ISO 16016	Technical product documentation - Protection notices for restricting the use of documents and products	
ISO 13715	Technical product documentation - Edges of undefined shape - Indication and dimensioning	
ISO 2553	Welding and allied processes - Symbolic representation on drawings - Welded joints	
General tolerances / Manufacturing		
ISO 2768:1989	General tolerances; tolerances for linear and angular dimensions without individual tolerance indications	Tolerance class mK
EN ISO 13920	Welding - General tolerances for welded constructions - Dimensions for lengths and angles; shape and position	Tolerance class AE
EN 5817	Welding - Fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded) - Quality levels for imperfections	Level D
ISO 10042	Welding - Arc-welded joints in aluminium and its alloys - Quality levels for imperfections	Level D
ISO 9692-1	Welding and allied processes - Types of joint preparation - Part 1: Manual metal arc welding, gas-shielded metal arc welding, gas welding, TIG welding and beam welding of steels	
ISO 17635	Non-destructive testing of welds - General rules for metallic materials	

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Norm	Title	Valid tolerance class
EN 10051	Continuously hot-rolled strip and plate/sheet cut from wide strip of non-alloy and alloy steels - Tolerances on dimensions and shape	
EN 10204	Metallic products - Types of inspection documents	
ISO 9013	Thermal cutting - Classification of thermal cuts - Geometrical product specification and quality tolerances	Cutting quality and tolerance class Flame cutting 9013-332 Laser cutting 9013-221
DIN 6930-2	Stamped steel parts - Part 2: General tolerances	
DIN 6935	Cold bending of flat-rolled steel	
EN 1090	Execution of steel and aluminium structures	