
Kalmar Group Standard

KGS 60131

Part
Method Standards
Name
Color Samples

Group
Requirements for Suppliers

1 Scope

This standard pertains to the management of the Kalmar standard color samples outlined in KGS 50502. Its scope encompasses both internal and external processes

2 Purpose

With the aim of establishing a standardized approach for handling various color samples, this standard is implemented to ensure consistent practices

3 Responsibilities

Material Planner / Sourcing - Responsible for ordering color samples from paint suppliers and providing them to Kalmar suppliers and/or to Quality Engineers, as well as keeping track of all suppliers with the current color samples.

Supplier Development Engineer - responsible for providing this KGS to the suppliers and making sure that the instructions are followed.

4 Definitions

Color master sample - A color master sample of a specific color (located at the paint supplier).

Color sample - Copies of the master samples

D65 - The standard daylight illuminant where D65 corresponds roughly to the average midday light in Western Europe / Northern Europe (comprising both direct sunlight and the light diffused by a clear sky).

Paint Supplier - the company that holds the color master samples and the corresponding prescription.

5 Records / References / Attachments

KGS 50502 Standard Colors

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6 Procedure Description / Requirements

6.1 General process

The master color samples are kept, by Kalmar selected, paint supplier. Copies of these samples, known as color samples, are created. These color samples are subsequently disseminated by Kalmar to suppliers and other pertinent stakeholders, both within and outside of Kalmar. Refer to Figure 1. Unless otherwise agreed upon, the color samples provided by Kalmar should be exclusively utilized

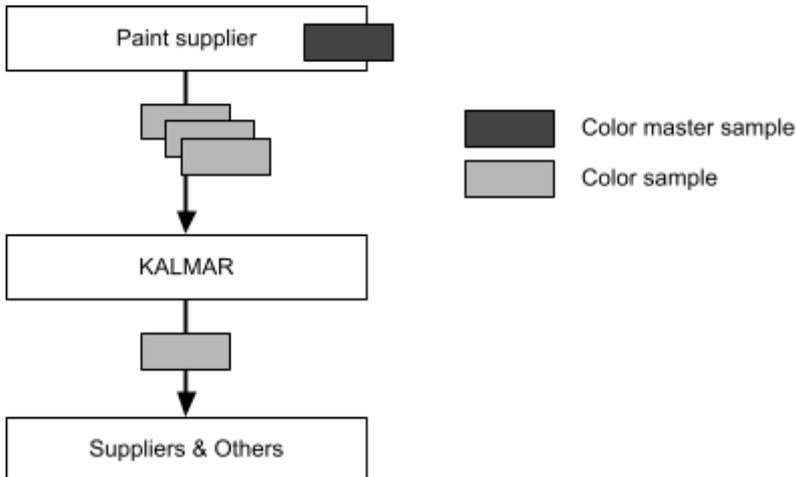
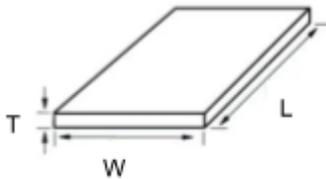


Figure 1 - Simplified process for color master samples and color samples

6.2 Dimensions

The color samples shall have a hole for hooking up and below recommended dimensions in mm, if nothing else is agreed.

T = 1
 L = 150
 W = 75



6.3 Storage

The color samples shall be stored in a dark place where no lights or heat can affect the panels. Acceptable temperature storage is: $21 \pm 5^{\circ}\text{C}$. Color samples shall not be exposed to any chemicals.

6.4 Validity of the color samples

The validity period of the color samples is four years, starting from the manufacturing date indicated on the back of each sample. Suppliers have the option to request additional color samples from Kalmar at any time. In such cases, any outdated or revised color samples should be discarded in favor of the most recent version provided

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6.5 Color sample information

A color sample shall hold below information on the opposite side of the shade.

- The paint supplier brand name
- The text "COLOR SAMPLE"
- The name of the paint
- The name of the priming coat, intermediate coat(s) and topcoat
- The gloss range
- The difference between the color master sample and the specific color sample in D65.
- The manufacturing date of the color sample
- The revision number of the sample

Example

XXXXXXX	<i>The paint supplier brand name</i>
COLOR SAMPLE	<i>The text "COLOR SAMPLE"</i>
Kalmar Red 2012	<i>The name of the paint</i>
Temathane PC 80	<i>The topcoat</i>
Temacoat GPL-S Primer	<i>The priming coat</i>
Gloss: 75+10/-5	<i>The gloss range</i>
D65	<i>The difference between the color master sample and the</i>
$\Delta L = 0.14$	<i>specific color sample in D65</i>
$\Delta a = 0.32$	
$\Delta b = 0.10$	
$\Delta E_{CMC} = 0.20$	
2019-11-11	<i>The manufacturing date of the color sample</i>
Revision 3	<i>The revision number of the sample</i>