



Product Specification and Services Manual

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New Age Enclosures Buyer's Guide

The information in this manual details New Age Enclosure's products and services to facilitate successful program development for our customer's enclosures.

Revision	Description of Changes	Date
5	Add L to Part Numbering Table	04/11/2024

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1.0 Scope and Purpose

- 1.1 This document identifies the options and differences between the 2 different classes of New Age Enclosures (NAE): Stock and Custom.
- 1.2 This document further explains the NAE enclosure numbering system along with specifications that may not otherwise be defined on released drawings.
- 1.3 In the event of a discrepancy between this document and a released drawing, the drawing takes precedence.
- 1.4 This document is the property of New Age Enclosures, Inc. Furthermore, this document contains proprietary and/or privileged information, and shall not be shared, distributed, or otherwise released, in whole or in part, without the express written consent of New Age Enclosures, Inc.

2.0 Stock and Custom Enclosure Features and Benefits

2.1 Stock Enclosures

As the name implies, these are the enclosures NAE works to keep in stock at all times. As such, they have the lowest price per unit and typically ship within a few days. NAE STOCK enclosures offer the quickest and most affordable product development solution.

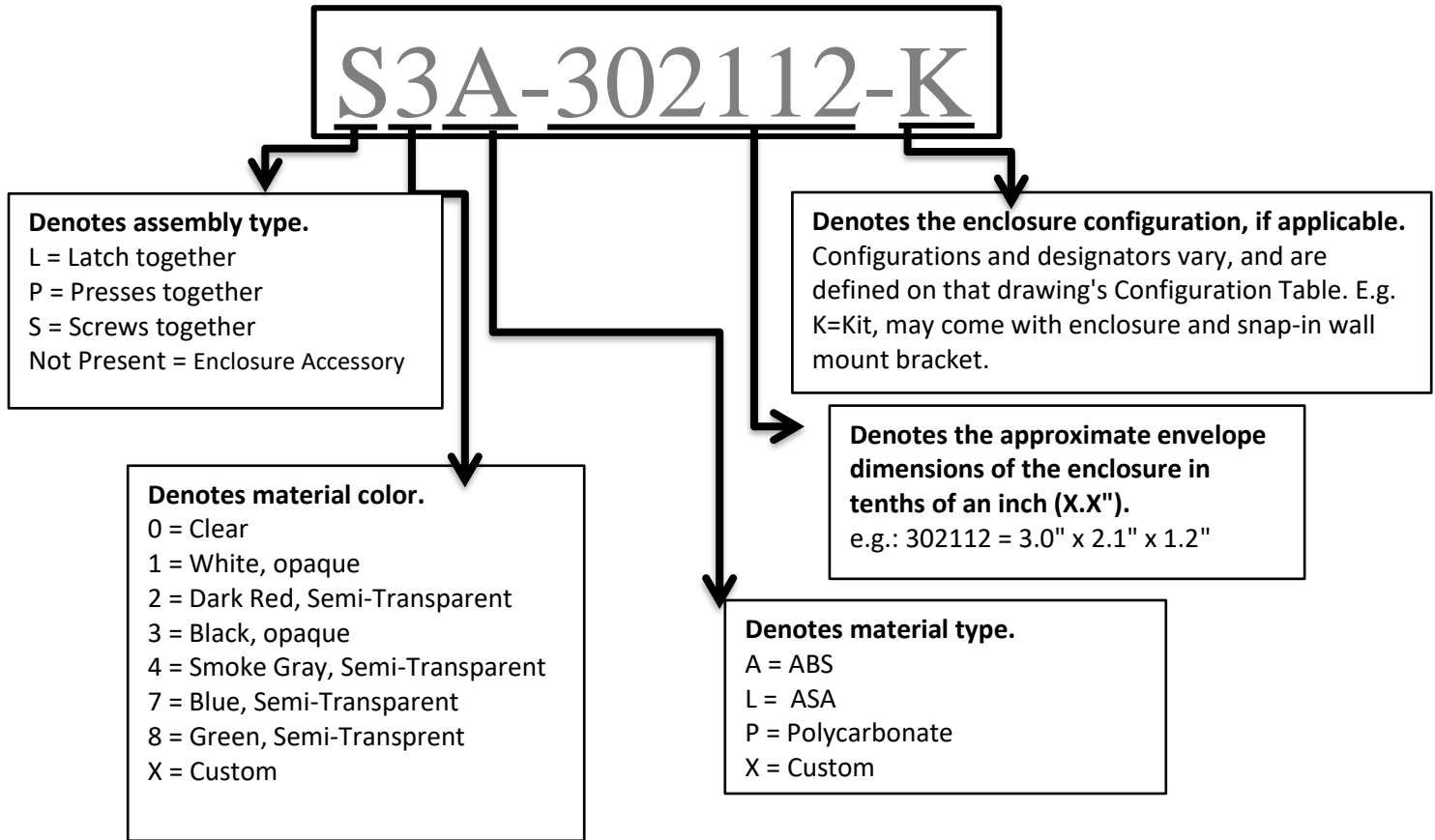
2.2 Custom Enclosures

Customers developing products in highly competitive fields will want to take advantage of our ability to mold any of our enclosures in a fully custom color and or custom resin. For end consumers and high-profile business applications a fully Custom Enclosure is worth the cost and extra time it takes to manufacture.

3.0 Stock and Custom Enclosure Overview Chart

Enclosure Category	Color	Part Number	Qty	Example Pricing	Lead Time
Stock	Stock Color	S3A-302112-K	250	\$5.00	In-Stock
Custom	Custom Color	SXA-302112-K	250	\$7.98	6-8 Weeks

4.0 Stock Part Numbering & Configuration Key



4.1 Custom Part Numbers will vary from the diagram above and are identified on each custom drawing.

5.0 Indoor Enclosure Color and Material Types

Stock:

- Black, ABS
- White, ABS

Custom:

- Any RAL or PMS Color Code
- Any Engineering Grade Resin Required



6.0 Weather Resistant Enclosure Color and Material Types

Stock:

- Black, ASA

Custom:

- Any RAL or PMS Color Code
- Any Engineering Grade Resin Required



7.0 Notes for Water Resistant Enclosures:

- NAE over-molds its brass assembly inserts to provide extra strength against potential pullout caused by over-torquing during assembly.
- Slight cosmetic swirling, blushing, and/or discoloration can occur in these enclosures due to UV inhibitors blended into the resin.
- Water Resistant Enclosures are constructed for indoor or outdoor use to provide a degree of protection to the equipment inside against the ingress of solid foreign objects (falling dirt); and to provide a degree of protection from harmful effects on the equipment due to the ingress of water (dripping or splashing).
- All Water-Resistant Enclosures by New Age include an O-Ring(s) to create a barrier against water, oil, dirt, and dust. *With O-Ring installed, New Age Water Resistant Enclosures meet IP67 rating.
- O-Ring_Material is either TPE or Silicone and varies in color dependent upon stock. *Both materials have been tested to provide the same amount of protection against the ingress of foreign objects.

8.0 Stock Material Descriptions:

- **ABS (Acrylonitrile Butadiene Styrene)**

ABS Plastic is a copolymer of Acrylonitrile, Butadiene, and Styrene. ABS is considered the best of the styrene family. It is tough and has good chemical resistance and dimensional stability.

*Meets UL94 HB and is RoHS compliant.

- **PC (Polycarbonate)**

Polycarbonate is an amorphous copolymer material with excellent Impact Strength, clarity, and optical properties. It is very widely used and a wide variety of compounds are available. Polycarbonate has excellent mechanical properties and can be molded to tight tolerances. It is attacked by solvents and petrochemicals, and its weatherability is only adequate.

*Meets UL94 HB and is RoHS compliant.

- **ASA (Acrylonitrile Styrene Acrylate)**

Acrylonitrile styrene acrylate material has great toughness and rigidity, good chemical resistance and thermal stability, outstanding resistance to weather, aging, and yellowing, and high gloss. ASA is a material similar to ABS but with better weather resistance due to the added UV inhibitor in the resin. Because of this attribute, ASA has been used heavily in the automotive industry, as well as several other outdoor applications.

*Meets UL94 HB and is RoHS compliant.

9.0 Market-Ready© Customization Services

New Age provides comprehensive in-house services that allow you to efficiently go from an Off-The-Shelf design to a Market-Ready Enclosure™. We are committed to being your single source solution to save you time and money. Our customization services include; CNC Cutouts, Part Decorating, Custom Colors & Materials, RF/EMI Shielding, Tooling Inserts, and 100% Custom Enclosure design and fabrication.

CNC Cutouts

Order precise cut-out in your electronic enclosure for an exact fit to your PCB connectors and cables. New Age does this in-house with affordable quality.

Part Decorating

Have your company's logo and or part markings printed directly onto your enclosure. New Age's in-house decorating service saves you the time, money, and hassle of having to second source.

RF/EMI Shielding

If your industry requires specific RF and EMI requirements New Age has you covered. To save you the cost and weight of using a metal enclosure New Age offers the ability to RF/EMI shield any of our enclosures with a spray-on metal coating.

Custom Tool Inserts

New Age offers high-volume discounts through custom tooling options. Custom tools and tooling inserts from our full-service, in-house tooling department eliminate the need for CNC modifications as an option to lower unit costs as your volumes increase.

Custom Enclosures and Design

In addition to off-the-shelf enclosures and customized stock enclosures, New Age is your single-source solution for completely custom-designed enclosures. We offer turn-key 3D design, prototypes, tool build, and high-volume production molding services.

10.0 OEM Customization Features and Benefits

10.1 OEM

As the designer and manufacturer of the enclosures, we know them better than anyone. We know the best speed and feed rates in which to cut the plastic for a high-quality finish, the best way to prepare the surfaces for decorating along with the best types of inks to use. In addition, we are the only source to order our enclosures in a custom color or resin required for your application

10.2 Fixtures

We have pre-built fixtures in-house for CNC and Decorating processes, this will save you time and money in addition to ensuring that the part fits well onto the fixture for high tolerance process repeatability.

10.3 Accessories

We have designed and sourced our accessories to work specifically with our enclosures. All accessories are tested and proven to be compatible.

10.4 Experience

New Age Enclosures has been in the injection molding industry for over 50 years. We know about wall thickness and assembly bosses for enclosures. We know how to ensure the best cosmetics by using Mold Flow Analysis. We can quickly build tooling inexpensively without sacrificing quality.