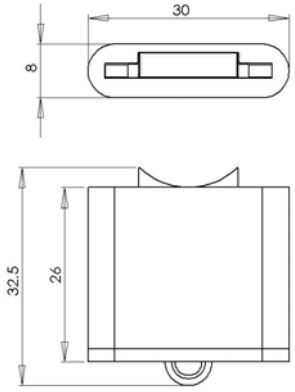
Technical Information Sheet
12/10/07

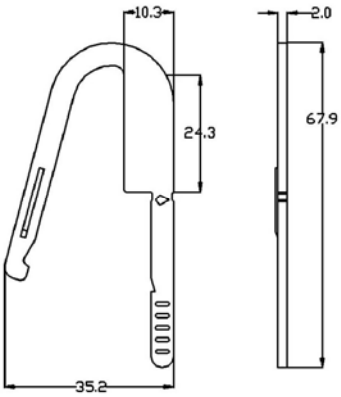
TENOR®

A RE-USABLE COMBINED INDICATIVE OR BARRIER SEAL

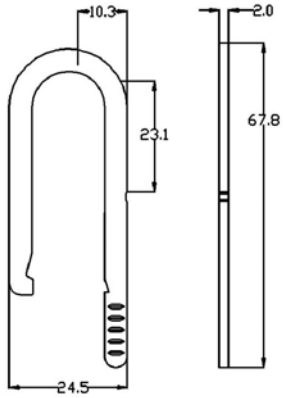
TENOR® re-usable body



TRIO® plastic hasp



TRIO® metal hasp



FEATURES

- A **combined** keyless barrier seal *or* indicative seal
- Durable **re-usable** body – **cost saving** implications
- Double locking mechanism provides maximum strength
- Hasps numbered or barcoded for full traceability

SPECIFICATION

Materials:
Body Case: Extruded Anodised Aluminium
Chain: (125mm): chrome plated brass]
Plastic hasp: acetal – indicative seal
Metal hasp: steel – barrier seal

Pull Strength (average):
With plastic hasp: approx. 357N (equivalent to ~ 36kg, 80lb)
With metal hasp: approx. 3100N (equivalent to ~ 310kg, 700lb)

Recommended Operational Temperature Range*:
Tenor system: -5°C to +50°C (23°F to +122°F)
(NB: all material is increasingly brittle with decreasing temp.)

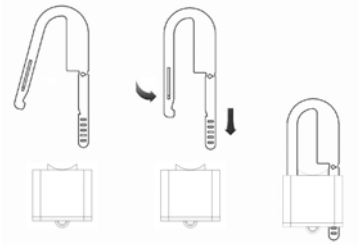
Customs classification:
ISO/PAS 17712: Indicative Seal (Plastic Hasp)
ISO/PAS 17712: Security Seal (Metal Hasp)
UK Customs: Group 3 equivalent

Minimum slot size for hasp to pass through:
2.3mm x 5.0mm

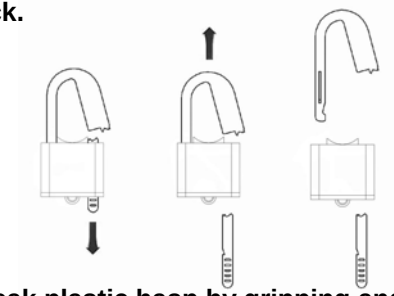
Stock Colours:
Body: N/A
Plastic hasp: N/A
Metal hasp: N/A

Stock Markings:
Body: N/A
Plastic hasp: N/A
Metal haps: N/A

Packaging:
Body: 100 per box, 100x100x240mm, 1.8kg
Plastic hasps: 1000 per box in mats of 4, 200x200x120mm, 1.9kg
Metal hasps: 1000 per box (4 boxes of 250), 290x180x170mm, 10kg



1. **Fit hasp to item to be sealed. Align the legs of the plastic hasp with the matching holes in the body. While squeezing the legs of the hasp into a parallel position, fully insert (longer leg first) into body to lock.**



2. **Break plastic hasp by gripping and twisting the body. Pull out straight piece from the bottom before removing arched piece from the top.**

3. **Metal hasp is fitted in the same way. To remove, cut right hand leg of hasp with appropriate tool. Remove the hasp pieces in the same manner as for plastic hasp.**

ITW Envopak, Edgington Way, Sidcup, Kent, DA14 5EF, UK.
Tel: +44 (0)20 8308 8000 Fax: +44 (0)20 8300 3832 E-mail: sales@itw-envopak.co.uk Website: www.itw-envopak.com

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CUSTOMISATION

All customisation available upon request only for orders above:
Body: 100 parts
Plastic hasps: 25,000 parts
Metal hasps: 10,000 parts

Custom Marking:
Body: custom logo laser marked (max. 20x10) on front
Plastic or metal hasps: - Laser marking (print area for branding: 20x4mm and 13.5x2.5)
- Up to 10 digit numbering possible
- Barcoding possible

Custom Colours:
Body: choice of colours for case
Plastic hasp: choice of colours
Metal hasp: black only

APPLICATIONS
- Airline trolleys
- Roll cages
- Vehicle doors
- Curtain sided lorries
- Air freight containers

TYPICAL RAW MATERIAL SAFETY AND PROPERTIES

	Aluminium	Acetal	Steel	Zinc Alloy
Health & Safety	The material is not hazardous. However, care should be taken when applying and removing a seal.	The material is not hazardous. However, care should be taken when applying and removing a seal.	The material is not hazardous. However, care should be taken when applying and removing a seal.	The material is not hazardous. However, care should be taken when applying and removing a seal.
Storage & handling	Keep in secure, dry & well ventilated place at room temperature, away from direct sunlight and protect from contamination.	Keep in secure, dry & well ventilated place at room temperature and protect from contamination.	Keep in secure, dry & well ventilated place at room temperature and protect from contamination.	Keep in secure, dry & well ventilated place at room temperature and protect from contamination.
Disposal of used seals	Material should be recycled or otherwise disposed of in compliance with local authority regulations	This product is not bio-degradable. It should be disposed of in compliance with local authority regulations.	Material should be recycled or otherwise disposed of in compliance with local authority regulations.	Material should be recycled or otherwise disposed of in compliance with local authority regulations.
Flammability	N/A	UL 94: HB	N/A	N/A
In case of fire	Dry powder or sand should be used.	Water spray, foam, dry powder or CO_2 may be used. Formaldehyde may be released if exposed to fire. Formaldehyde is a carcinogen.	Dry powder or sand should be used.	Dry powder or sand should be used.
Melting point	Aluminium will melt at approx. 660 degrees centigrade.	Acetal will melt at approx. 170 degrees centigrade.	Steel will melt at approx. 1500 degrees centigrade.	Zinc alloy will melt at approx. 400 degrees centigrade.

Note: Care should be taken when removing a metal seal, being especially cautious of sharp edges.

All values are typical values as published and are for guidance only. ITW Envopak reserves the right to alter these specifications without notice. The above safety information has been extracted from material safety data sheets supplied by our raw material suppliers. No liability is taken by ITW Envopak for the accuracy of this information.

*Recommended operational temperature range is a guide only. The seal can withstand more extreme temperatures depending on conditions. For temperatures outside the recommended range seals should first be tested in the specific application by the customer.

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