



Stick & Staple RFID Tag

RFID FOR WOOD SURFACES

Perfect for applications that need a bit more than just adhesive, Metalcraft's Stick and Staple RFID Tag attaches directly to assets with adhesive. It also has a clearly identified border where it is safe to staple the tag without damaging the inlay for those hard-to-adhere-to surfaces.

All Metalcraft RFID tags are designed with our proven durability, ready to withstand repeated usage in rugged environments, generating a greater ROI for your business. Each tag can be programmed to match the variable information printed on the label. Subsurface digital printing is available, which ensures crisp details on even the most complex logos for maximum clarity. Four color processing is available for limitless color and design options.

Material and Design Specifications

- Overall dimensions 4" x 2" x 0.02" (101.6 x 50.8 x 0.27 mm), The size must include a 1/2" blank border on all sides to protect the inlay from staples.
- Other sizes are available
- .0006" (0.015 mm) high performance adhesive
- Created from durable layers of polyester
- Features high-quality digital print for complex details and logos

Technical Specifications

- **RF protocol for UHF** EPC Global Class 1 Gen 2 ISO 18000-6C
- **RF protocol for NFC** ISO 14443
- **RF protocol for HF** ISO 15683
- **Frequency** UHF = 860-960 MHz and HF/NFC = 13.56 MHz
- **IC type:** Various
- **Chip memory:** Various
- **Read range on wood:** Inlay-dependent

Key Features

- Digital printing process provides for greater print capability with detailed logos or special designs
- Meets EPCglobal Gen2 (V 1.2.0) as well as ISO/IEC 18000-6C:2004/Amd 1:2006 (type C and update of Types A and B)
- Compatible with RFID Tracking Software

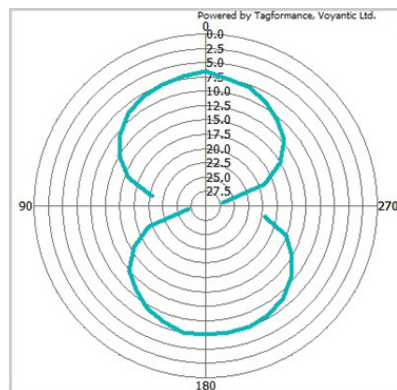
Applications

- Ideal for applications involving wood (pallets, crates, barrels, etc.) or cardboard

Environmental Specifications

- Minimum Application Temperature 50 °F (10 °C)
- Operating Temperature Range: -40 °F (-40 °C) to +185 °F (+85 °C).
- UV Resistance: Indoor use only
- Chemical Resistance: Can withstand common cleaning chemicals. Avoid exposure to acetone.

Radiation Pattern



*Standard UHF inlay pattern, will vary with custom inlay options.

Test Results

These tests were conducted for a limited period in strict laboratory conditions. To achieve maximum satisfaction, we highly recommend any customer considering use of this product test the labels in the environment in which they will be used.

Chemical Resistance Summary: This table contains observations of the conditions that developed during chemical exposure

Immersion Time/Sample	Water	Salt Water (5% NaCl)	Bathroom Cleaner	Glass Cleaner	Isopropanol 99%	Brake Fluid	Acetone	Diesel	Nitric Acid	Hydrochloric Acid	Sodium Hydroxide
Stick and Staple (2 Hours)	NE	NE	NE	NE	NE	NE	NE	AO	NE	NE	NE
Stick and Staple (24 Hours)	NE	NE	NE	NE	NE	NE	AO	AO	NE	NE	NE
Stick and Staple (48 Hours)	NE	NE	NE	AO	NE	NE	AO,TD	AO	NE	NE	NE

Key NE = No Effect, AO = Adhesive Ooze, TD = Tag Delaminated

Max Temperature Exposure

Stick and Staple RFID Tag

250 °F (121 °C) for up to 1 hour

Installation Instructions

1. Clean the surface using Isopropyl alcohol, alcohol pad or equivalent solvent to ensure surface is free from dirt, dust, oil and misc. debris that may affect adhesion.
2. Handle the tag by edges, peel release liner from back ensuring not to touch the adhesive.
3. Place the tag in desired tagging location and firmly apply even pressure to the tag for 5 seconds.
4. Do not disturb the newly mounted tag for at least 72 hours to ensure proper adhesive sealing.

Industry Compliance



intertek