

CERTIFICATIONS



Stainless Steel Cable Tie and Banding Approvals

- American Bureau of Shipping TYPE APPROVED
- ISO 9001: 2015 US3238
- Underwriters Laboratories: E244590
- 12 Other Certification Agency Approvals found under ABS EU RO Certification (see next page)

RoHS Compliance

All Hayata manufactured products listed below are fully compliant with **EU RoHS Directive 2002/95/EC**. These products are created from stainless or carbon steel and include none of the hazardous substances listed in the directive as part of the manufacturing process.

- Stainless Steel Ties
- Stainless Steel Tags
- Stainless Steel bands
- Stainless Steel Buckles

Stainless Steel Chart

Compositions of Common Stainless Steel Grades

Maximum weight % unless a range or minimum is shown.

Types:

- S-A = Austenitic
- S-M = Martensitic
- S-D = Duplex

	201	304	316	317	321	347	403
Type	S-A	S-A	S-A	S-A	S-A	S-A	S-M
C	0.15	0.08	0.08	0.08	0.08	0.08	0.15
Mn	5.50	2.00	2.00	2.00	2.00	2.00	1.00
P	0.06	0.045	0.045	0.045	0.045	0.045	0.040
S	0.030	0.030	0.030	0.030	0.030	0.030	0.030
Si	1.00	1.00	1.00	1.00	1.00	1.00	0.50
Ni	3.50-5.00	8.00-10.50	10.00-14.00	11.00-15.00	9.00-12.00	9.00-13.00	-
Cr	16.00-18.00	18.00-20.00	16.00-18.00	18.00-20.00	17.00-19.00	17.00-19.00	11.50-13.00
Mo	-	-	2.00-3.00	3.00-4.00	-	-	-
V	-	-	-	-	-	-	-
Cu	-	-	-	-	-	-	-
Other	-	-	-	-	Ti, 5xC min.	Cb-Ta, 10xC min.	-
Source	SAE J405 JAN89	SAE J405 JAN89	SAE J405 JAN89	SAE J405 JAN89	SAE J405 JAN89	SAE J405 JAN89	SAE J405 JAN89

ABS EU RO CERTIFICATION



Our ABS EU RO Type approved stainless steel cable ties and banding are for use at shipyards around the world where these certified organizations are required:

- American Bureau of Shipping
- Bureau Veritas (BV)
- China Classification Society (CCS)
- Croatia Register of Shipping (CRS)
- DNV GL
- Indian Register of Shipping (IRS)
- Korean Shipping (KR)
- Lloyd's Register Group Ltd (LR)
- Nippon Kaiji Kyokai General Incorporated Foundation (ClassNK)
- Polish Register of Shipping (PRS)
- RINA Services S.p.A. (RINA)
- Russian Maritime Register of Shipping (RS)



What's so special about Hayata's EU RO certification?

Hayata is the first, and currently only, US stainless steel cable tie manufacturer to achieve this global level of ABS certification. In accordance with Article 10 of Regulation (EC) No 391/2009 of the European Parliament and of the Council of 23 April 2009 "on common rules and standards for ship inspection and survey organizations," the above listed organizations, recognized by the EU on this certificate's date, have agreed on the technical and procedural conditions under which they will mutually recognize this certificate.

TBC – Roller Ball Cable Ties (See pages 5-6)
KST – Ladder Cable Ties (See page 10)
KRCT – Releasable Cable Ties (See page 9)

CB – Coated Banding (See page 18)
SB – Stainless Steel Super Band Coated Banding
& Tough Band Coated Banding (See page 19)