

A-A-880
May 13, 1980

COMMERCIAL ITEM DESCRIPTION
STRAPPING, STEEL FLAT AND SEALS

The General Services Administration has authorized the use of this commercial item description in lieu of Federal Specification QQ-S-781.

Salient characteristics:

The steel strapping shall be supplied in the following duty grades, finishes, sizes (width and thickness), and strengths:

Duties.

- | | | |
|-------------------|---|--|
| Regular duty | - | Cold-rolled, low-carbon (see table I). |
| High tensile duty | - | Cold-rolled, medium-carbon, high tensile (see table I). |
| Heavy duty | - | Hot-rolled, normalized high-carbon or cold-rolled, medium-carbon heat treated (see table I). |

Grades.

- | | | |
|-------------------------------|---|---|
| Standard grade | - | For hand operated tensioning and sealing. |
| Automatic power machine grade | - | For power machine with automatic feed. |

Finishes.

- Painted only.
 - Painted and waxed.
 - No paint and dry (no wax).
 - Zinc painted and waxed.
 - Galvanized standard commercial.
 - Galvanized in accordance with government grade 2.
- The seals shall be designed to have a strength based on the seal type (shown below), joint type (notch or crimp) and duty (regular or heavy). Notch and crimp joints shall be single, double, or triple.

Seal type.

- Snap on or open
- Thread on or closed.
- Push or overlap.
- Magazine feed.

Certification. The contractor shall certify that the product offered meets the salient characteristics of this description and that the product conforms to the producer's own drawings, specifications, standards, and quality assurance practices and is the same product offered for sale in the commercial marketplace. The Government reserves the right to require proof of such conformance prior to first delivery and thereafter as may be otherwise provided for under the provisions of the contract.

Recovered materials. The manufacturer shall utilize recovered materials to the maximum extent practicable.

Packaging, packing, and marking. The packaging and packing shall be in accordance with normal commercial practice that will assure acceptance by common carrier and provide product protection against loss and damage during multiple shipments, handling, and storage. The shipping container shall be in compliance with the National Motor Freight Classification and Uniform Freight Classification. Shipping containers shall be marked as specified in the contract or order.

Note. Ordering activity shall specify strapping duty, grade and finish and seal type, joint type, duty.

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TABLE I. Steel strapping

Size Width (in)	Thickness (in)	Lowest average breaking strength acceptable (lb)	Nominal Yield (ft per lb)	Nominal coil wt.		Strapping grade		Finish													
				Mill or coil wound (lb)	Ribbon wound (lb)	Standard	Power machine	Painted only	Standard commercial	Galvanized Govt. grade 2 waxed	Zinc painted	waxed Paint	No paint dry								
Regular duty (Cold rolled)																					
5/16	.012	450	78.5	100																	
1/4	.015	470	78.43	100						X											
	.020	575	58.82	100						X											
3/8	.010	400	78.43	90-100						X											
	.012	520	65.36	100						X											
	.015	650	52.30	100						X											
	.018	765	43.57	100						X											
	.020	865	39.22	100						X											
	.023	985	34.11	100						X											
1/2	.010	530	58.82	100						X											
	.012	690	49.02	100						X											
	.015	870	39.22	100						X											
	.018	1,020	32.68	100						X											
	.020	1,150	29.41	100						X											
	.023	1,300	25.58	100						X											
5/8	.012	865	39.22	100						X											
	.015	1,100	31.38	100						X											
	.018	1,270	26.14	100						X											
	.020	1,440	23.53	100						X											
	.023	1,620	20.46	100						X											
3/4	.015	1,310	26.14	100						X											
	.018	1,530	21.79	100						X											
	.020	1,750	19.61	100						X											
	.023	1,950	17.05	100						X											
	.025	2,200	14.01	100						X											
	.035	2,600	11.20	100						X											
High tensile duty (HT) cold-rolled (CR) - Heat treated																					
1/2	.020	1,450	29.41	100						X											
	.023HT	1,680	25.58	100						X											
	.031HT	2,250	18.98	100						X											
5/8	.020HT	1,810	23.53	100						X											
	.023HT	2,000	20.46	100						X											
	.025HT	2,620	15.69	100						X											
3/4	.031HT	3,250	12.65	100						X											
	.044HT	4,660	8.91	100						X											

TABLE I. Steel strapping - Continued

Width (in)	Size Thickness (in)	Lowest average breaking strength acceptable (lb)	Nominal Yield (ft per lb)	Nominal coil wt.		Strapping grade	Finish																		
				Mill or coil wound (lb)	Ribbon wound (lb)		Painted only	Standard commercial	Galvanized sheet Grade 2 waxed	Zinc painted	waxed Paint	No paint dry													
1-1/4	.02HT	5,450	7.59			X						X			X										
	.04HT	7,700	5.35			X						X			X										
	.04HT	12,300	3.34			X						X			X										
3/4				<u>Heavy duty</u>																					
				115	60													X			X				
				115	60													X			X				
				115	60													X			X				
1-1/4																									
																		100	100	X			X		
																		100	100	X			X		
2																									
																		100-125	100-120	X			X		

generally called hot-rolled, normalized high carbon strapping.

