

FF-N-105B
AMENDMENT 3
October 4, 1974

SUPERSEDING
AMENDMENT 2
December 15, 1972

FEDERAL SPECIFICATION

NAILS, BRADS, STAPLES AND SPIKES:
WIRE, CUT AND WROUGHT

This amendment, which forms a part of Federal Specification FF-N-105B, dated March 17, 1971, was approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies.

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Paragraph 2.2: Add the following ASTM standard:

"ASTM A641 - Zinc-Coated (Galvanized) Carbon Steel Wire."

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Paragraphs 3.2.1, 3.2.1.1, 3.2.1.2 and 3.2.1.3: Delete in their entirety and substitute the following:

"3.2.1 Zinc coating.

a. Hand driven staples or nails required to be zinc coated shall be cut and formed from hot dip galvanized steel wire, electrogalvanized steel wire or mechanically deposited zinc coated steel wire or cut from uncoated (bright) steel wire and shall be hot dip galvanized, electrodeposited zinc coated or mechanically deposited zinc coated after forming.

b. Power or mechanically driven staples required to be zinc coated shall be cut and formed from hot dip galvanized, asbestos wiped steel wire, electrogalvanized steel wire or mechanically deposited zinc coated steel wire.

c. Power or mechanically driven nails required to be zinc coated shall be cut and formed from hot dip galvanized, asbestos wiped steel wire, electrogalvanized steel wire or mechanically deposited zinc coated steel wire or cut from uncoated (bright) steel wire and shall be hot dip galvanized, electrodeposited zinc coated or mechanically deposited zinc coated after forming.

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3.2.1.1 Galvanizing.

a. Wire - Hot dip galvanized wire shall be in accordance with ASTM A641, Class 1 coating.

b. After forming. Hot dip galvanizing after forming shall be in accordance with ASTM A153. The coating weight shall be in accordance with ASTM A641, Class 1 coating.

3.2.1.2 Mechanically deposited. Mechanically deposited zinc coating shall be in accordance with MIL-C-81562, Type II. The coating weight shall be in accordance with ASTM A641, Class 1 coating.

3.2.1.3 Electrogalvanized (electrodeposited).

a. Wire - Electrogalvanized wire shall be in accordance with ASTM A641, Class 1 coating.

b. After forming - Electrodeposited zinc coating shall be in accordance with QQ-Z-325, Type I. The coating weight shall be in accordance with ASTM A641, Class 1 coating.

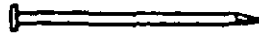
3.2.1.4 Hand driven staples and nails may be furnished with a heavier zinc coating than as specified above."

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Paragraph 3.6.5, first line - Delete "style 4" and substitute "style 4A".

Add the following new paragraph:

3.6.5.1 Type II, style 4B - Box nails. Steel wire, flat head, diamond point, round smooth shank, cement coated.



S	L	D	H	NO./LB	S	L	D	H	NO./LB
2d	1	.058	.172	1,252	7d	2-1/8	.086	.250	280
3d	1-1/8	.062	.188	978	8d	2-3/8	.099	.266	190
4d	1-3/8	.067	.203	680	9d	2-5/8	.099	.266	172
5d	1-5/8	.072	.219	510	10d	2-7/8	.113	.297	119
6d	1-7/8	.086	.250	315					

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Paragraph 3.6.11.1: Delete in its entirety and substitute the following:

3.6.11.1 Type II, style 10 - Common nails. Copper wire, flat head, diamond point, round smooth shank.

L	D	H	NO./LB	L	D	H	NO./LB
5/8	.065	.156	1,360	2	.120	.266	130
3/4	.065	.156	1,160	2	.134	.281	106
3/4	.072	.172	956	2-1/2	.134	.281	86
7/8	.072	.172	808	3	.148	.312	56
1	.072	.172	704	3-1/2	.165	.344	40
1-1/4	.083	.203	424	4	.203	.406	23
1-1/2	.109	.250	208	4-1/2	.220	.438	18
1-3/4	.109	.250	180	5	.238	.469	14
1-3/4	.120	.266	144	6	.284	.531	8

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Table IV-A: Delete the section of the table specifying tolerances and substitute the following:

18 Gage (.0475)	[.0395 ± .0020T]	X	[.0490 ± .0020W]
16 Gage (.0625)	[.0560 ± .0020T]	X	[.0635 ± .0020W]
*16 Gage (.0625)	[.0460 ± .0020T]	X	[.0700 ± .0020W]
15 Gage (.0720)	[.0660 ± .0020T]	X	[.0740 ± .0020W]
14 Gage (.0800)	[.0735 ± .0040T]	X	[.0855 ± .0040W]
13 Gage (.0915)	[.0850 ± .0040T]	X	[.0960 ± .0040W]
12 Gage (.1055)	[.0935 ± .0040T]	X	[.1120 ± .0040W]
10 Gage (.1350)	[.1250 ± .0040T]	X	[.1400 ± .0040W]

- * "Special" wire tolerances after forming for the attachment of composition asphalt shingles. Staples manufactured to these tolerances are for non-structural use only.

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Add the following to Table IV-B:

CROWN WIDTH	.435 ± .015				.180 ± .015			
WIRE** SIZE	.020T X .030W		.020T X .040W		.020T X .030W		.020T X .040W	
LEG LENGTH	3/16 1/4 5/16 3/8 1/2	+1/32 -1/64	1/4 5/16 3/8 1/2	+1/32 -1/64	3/8 1/2 9/16 5/8 3/4 7/8	+1/32 -1/64	3/8 1/2 9/16 5/8 3/4 7/8 1 1-1/8	+1/32 -1/64

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Paragraph 4.4.2, first sentence: After "3.2.1.2" add "and 3.2.1.3".

Paragraph 4.4.2.1: Delete in its entirety.

Military Custodians:

Army - WC
Navy - YD
Air Force - 82

Preparing Activity:

Army - WC

Reviewer Activities:

Army - AT, EA, WT
Navy - None
Air Force - None
DSA - IS
NS

Civil Agency Interest

GSA - FSS

User Activities:

Army - AV, ME, MU
Navy - CG, MC
Air Force - None