



TABLE I. DASH NUMBERS AND DIMENSIONS

| CONCRETE NAILS | | | | | |
|----------------|--------|------------------------|------------------------|--------------------------|------------------------------|
| DASH NUMBERS | | $\pm \phi D$ ± .004 | $\pm \phi H$ ± .028 | L | NUMBER PER LB (APPROX) |
| SMOOTH | FLUTED | | | | |
| -1 | -11 | .181 | .284 | $1 \pm 1/32$ | 204 |
| -2 | -12 | .181 | .284 | $1 \frac{1}{2} \pm 1/16$ | 116 |
| -3 | -13 | .181 | .284 | $1 \frac{3}{4} \pm 1/16$ | 112 |
| -4 | -14 | .181 | .284 | $2 \pm 1/16$ | 93 |
| -5 | -15 | .181 | .284 | $2 \frac{1}{2} \pm 1/16$ | 68 |
| -6 | -16 | .181 | .284 | $2 \frac{3}{4} \pm 3/32$ | 60 |
| -7 | -17 | .181 | .284 | $3 \pm 3/32$ | 52 |

REQUIREMENTS:

1. **MATERIAL:** NAIL, TYPE II, STYLE 11, SHALL BE MANUFACTURED FROM HARDENED STEEL IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.
2. **CHARACTERISTICS:** NAIL SHALL HAVE FLAT COUNTERSUNK HEAD, DIAMOND POINT, SMOOTH OR FLUTED (MECHANICALLY DEFORMED) SHANK, BRIGHT FINISH (SEE NOTE 2), IN ACCORDANCE WITH PROCUREMENT SPECIFICATION.
3. **SHANK DIAMETERS:** DIAMETERS OF POINTED NAILS SHALL BE MEASURED DIRECTLY BELOW THE GRIPPER MARKS. DIAMETER OF MECHANICALLY DEFORMED SHANKS SHALL BE MEASURED BEFORE DEFORMATION.
4. **LENGTHS:** TOLERANCES ON LENGTHS SHALL BE $\pm 1/32$ INCH FOR LENGTHS UP TO AND INCLUDING 1 INCH; $\pm 1/16$ INCH FOR LENGTHS OVER 1 INCH UP TO AND INCLUDING 2 1/2 INCHES; $\pm 3/32$ INCH FOR LENGTHS OVER 2 1/2 INCHES UP TO AND INCLUDING 7 INCHES AND $\pm 1/8$ INCH FOR LENGTHS OVER 7 INCHES.
5. **HEAD DIAMETERS:** THE DIFFERENCE IN DIAMETER ACROSS THE LONG AXIS SHALL NOT EXCEED THAT ACROSS THE SHORT AXIS BY MORE THAN 10 PERCENT. A FILLET SHALL BE PROVIDED UNDER THE HEAD, AN ANGLE OR RADIUS WILL BE ACCEPTABLE. HEADS SHALL BE WELL CENTERED.
6. **PART NUMBER.** THE PART NUMBER SHALL CONSIST OF THE BASIC MS NUMBER FOLLOWED BY A DASH NUMBER FROM TABLE I.

EXAMPLE: MS51547-6

DASH NUMBER

BASIC MS NUMBER

MS51547-6 INDICATES: NAIL, CONCRETE; .181 SHANK DIAMETER, SMOOTH SHANK; .284 HEAD DIAMETER; 2 3/4 LENGTH.

NOTES:

1. ALL DIMENSIONS ARE IN INCHES.
2. BRIGHT FINISH IS A TERM APPLIED TO NAILS WITH NATURAL BARE FINISH RESULTING FROM CLEANING OF NAILS WHICH HAVE NOT UNDERGONE TREATMENTS AFFECTING FINISH, SUCH AS HARDENING, BLUEING, COATING, PLATING, ETCHING AND PAINTING.
3. IN THE EVENT OF A CONFLICT BETWEEN THE TEXT OF THIS STANDARD AND THE REFERENCES CITED HEREIN, THE TEXT OF THIS STANDARD SHALL TAKE PRECEDENCE.
4. REFERENCED GOVERNMENT (OR NON-GOVERNMENT) DOCUMENTS OF THE ISSUE LISTED IN THAT ISSUE OF THE DEPARTMENT OF DEFENSE INDEX OF SPECIFICATIONS AND STANDARDS (DODISS) SPECIFIED IN THE SOLICITATION FORM A PART OF THIS STANDARD TO THE EXTENT SPECIFIED HEREIN.

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| P. A. ARMY-AR Other Cust NAVY-YD AIR FORCE-99 | INTERNATIONAL INTEREST | TITLE NAIL, CONCRETE | MILITARY STANDARD MS 51547 |
| PROCUREMENT SPECIFICATION FF-N-105 | SUPERSEDES: | PAGE 1 OF 1 | |