



DETAINDER HOOK BARB® BARBED TAPE OBSTACLE

Detainer Hook Barb barbed tape obstacle shall be fabricated from AISI 430 stainless steel hardened to Rockwell (30N) 35-40. The stainless steel strip shall be 34.25mm wide before roll-forming by .62mm thick, with clusters of eight (8) needle sharp barbs on 100mm ± 5mm centers around each coil loop. Each barb shall be a minimum of 65mm long, measured from tip to tip. Each barb shall be angled away from the center line of the tape approximately 24° and have a 2.54mm nominal length retaining barb located 17mm ±1.27mm from the barb tip.

The 430 stainless steel strip shall be permanently cold-clenched over a high-tensile spring steel stainless wire having a tensile strength of 896MPa and a minimum 230° wrap around the core wire. (Core wire also available in galvanized steel with a minimum tensile strength of 1517MPa.)

The finished reinforced barbed tape shall be a minimum of 6.604mm wide in the throat area and shall exhibit two continuous cut-resistant strengthening flanges which are tapered at each barb root to permit maximum barb penetration.

SELECTION GUIDE						
DIAMETER mm	LOOPS	CLIPS	BARB CLUSTERS	LOOP SPACING mm	LENGTH PER ROLL m	WEIGHT PER ROLL kgs
635	31	3	19	400	6	9
787	31 (51)	3 (5)	23	400 (300)	6 (7.5)	11 (16)
939	51	5	28	300	7.5	18
1040	51	7	31	300	7.5	21
1560	81 (101)	9	47	300	12 (15)	50 (63)



BARBED TAPE SPECIFICATION

INSTABARRIER®

Non-Reinforced Concertina

1. GENERAL

- 1.01. This section covers the furnishing and installation of rapid deployment barbed tape.
- 1.02. Applicable Documents:
 - ASTM A-666 Specification for Austenitic Stainless Steel, Sheet, Strip, Plate, and Flat Bar for Structural Applications.
 - U.S. Army MERADCOM Drawing 1330E8353

2. PRODUCTS

- 2.01. Barbed tape shall be [24", 30", 40", 60"] diameter plus or minus 1Ø concertina style coil consisting of 101 loops. Each loop shall contain [20, 24, 31, 46] plus or minus 1 barb clusters per loop. Adjacent coil loops shall be alternately spot welded at [3, 5, 7, 13] points about the circumference to produce the concertina effect upon deployment. Spacing between welded attachment points when deployed shall be 12" plus or minus 2".
- 2.02. Barbed tape shall be fabricated from 301 austenitic stainless steel conforming to ASTM A-666. Stainless steel shall be 1.210" wide before fabrication by 0.025" thick with barb clusters as per U.S. Army MERADCOM drawing 1330E8353. Stainless steel shall be hardened to Rockwell (30N) 50-55. Clusters of 4 barbs having a maximum tip radius of 0.005" shall be punched 4" on center. Barbs shall have a length of 1.15Ø Barbs shall be alternately offset from the tape centerline .15"- .45"
- 2.03. Barbed tape shall be converted to concertina by welding alternate adjacent loops at [3, 5, 7, 13] places about the circumference, continuous along the entire length of the roll. Concertina attachments (**welds**) shall be capable of withstanding a 400 lb. load uniformly distributed about the periphery.
- 2.04. The maximum barbed tape opening and coil length shall be preset by attaching a jacketed stainless steel wire rope, 7 by 7 strand, 3/64" by 5/64" minimum diameter symmetrically about the circumference along the length of the obstacle to each coil loop.

3. EXECUTION

- 3.01. InstabARRIER barbed tape is designed for use as a permanent barrier and, when used in a temporary installation, for rapid deployment and recovery. To install, simply attach the free end of the barrier to the ground or some other fixed point and pull until the entire roll is deployed
- 3.02. Each coil shall be extended a maximum of 50 ± 1 foot.