

Perimeter Security Products



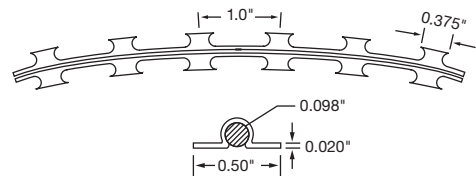
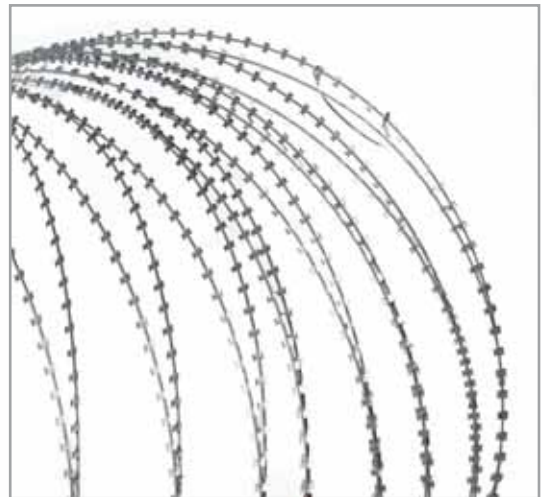
RAZOR[®]
RIBBON

BARBED TAPE OBSTACLES



BTC BARBED TAPE CONCERTINA

Single coil wire reinforced concertinas, 38" in diameter are fabricated from 0.020" thick ASTM A653 (GA) galvanized steel strip. Strip is clinched around a galvanized steel core wire. Each roll consists of 56 coil loops with pairs of coil loops alternately clipped together at five locations around the circumference. Each coil extends to 50' when deployed at 21" coil spacing. Two opposing handles at each end are attached to the end coils. Refer to Military Specifications A-A-555-22A for additional information.



USES: Military battlefield and training barrier.

Military Tactical Barrier Concertina Coil (WIRE REINFORCED)							
NSN	Dia.	Coil Loops	Strip Matl.	Core Wire	Coil Spacing	Yield	Packaging
—	18"	56	SS	SS	16"	37'	1/40
—	18"	56	SS	GA	16"	37'	1/40
—	18"	56	GA	GA	16"	37'	1/40
—	28"	56	SS	SS	21"	50'	1/40
—	28"	56	SS	GA	21"	50'	1/40
—	28"	56	GA	GA	21"	50'	1/40
—	38"	56	SS	SS	21"	50'	1/40
—	38"	56	SS	GA	21"	50'	1/40
5660-00-921-5516	38"	56	GA	GA	21"	50'	1/40

Allied Fence Pickets are specially designed for use with BTC Barbed Tape Type Concertina. **See Page 7 for complete specifications.**

MAZE®

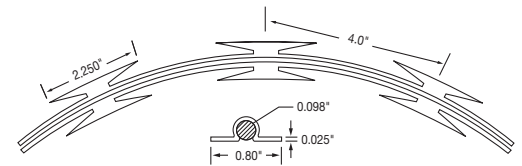
Maze® barbed tape obstacle is the original long-barb, wire-reinforced concertina. Maze barbed tape is used in more minimum to medium security applications around the world than any other barbed tape.

Single coil wire reinforced concertinas are fabricated from 0.025" thick AISI 430 (SS) stainless steel or ASTM A653 (GA) galvanized steel. Each roll consists of 31 coil loops with pairs of loops alternately clipped together. Clusters of four needle sharp barbs are located 4" o.c. along the spiral turns. Concertina rolls are available in combinations of SS or GA, tape and core wire. Barbed tape is wrapped 230* around 0.098" diameter SS or GA core wire.

USES: Minimum to medium security confinement and detention applications, low level utility companies, airport perimeters, etc.



Single Coil Concertina Maze® (WIRE REINFORCED)									
NSN	Dia.	Coil Loops	Strip Matl.	Core Wire	Clips	Coil Spacing	Yield	Pkg.	ASTM F 1910 Item#
5660-01-457-9847	18"	31	SS	GA	3	12"	15'	4/Box	#8
5660-01-495-6178	18"	31	GA	GA	3	12"	15'	4/Box	#8
5660-01-457-9849	18"	31	SS	SS	3	12"	15'	4/Box	#9
5660-01-457-9850	24"	31	SS	GA	3	16"	20'	5/Box	#10
5660-01-495-6284	24"	31	GA	GA	3	16"	20'	5/Box	#10
5660-01-457-9852	24"	31	SS	SS	3	16"	20'	5/Box	#11
—	30"	31	SS	GA	3	16"	20'	3/Box	—
—	30"	31	GA	GA	3	16"	20'	3/Box	—
—	30"	31	SS	SS	3	16"	20'	3/Box	—
—	36"	31	SS	SS/GA	3	16"	20'	4/Box	—
—	18/24"	31/31	SS	SS/GA	3	12"	15'	5/Box	—
—	24/30"	31/31	SS	SS/GA	3	16"	20'	5/Box	#22



SUPERMAZE® & NATO BARRIER®

Super Maze® and Nato Barrier® barbed tape products are designed for high density maximum security applications. Nato Barrier® barbed tape was given its name after being successfully installed around several extremely sensitive NATO facilities in Northern Europe

Single coil wire reinforced concertinas are fabricated from 0.025" thick AISI 430 (SS) stainless steel or ASTM A653 (GA) galvanized steel. Each roll consists of 51 coil loops with pairs of loops alternately clipped together. Clusters of four needle sharp barbs are located 4" o.c. along the spiral turns. Concertina rolls are available in combinations of SS or GA, tape and core wire. Barbed tape is wrapped 230* around 0.098" diameter SS or GA core wire.

USES: Maximum security

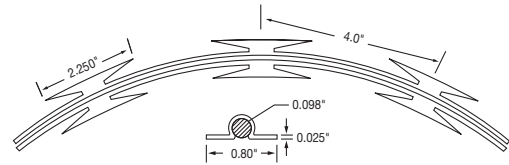
Single Coil Supermaze® (WIRE REINFORCED - EXTRA LOOPS & EXTRA CLIPS)									
NSN	Dia.	Coil Loops	Strip Matl.	Core Wire	Clips	Coil Spacing	Yield	Pkg.	ASTM F 1910 Item#
5660-01-495-9534	30"	51	SS	SS	5	12"	25'	3/Box	#15
5660-01-495-9566	30"	51	SS	GA	5	12"	25'	3/Box	#15
—	40"	51	SS	SS	7	12"	25'	2/Box	#18
—	40"	51	SS	SG	7	12"	25'	2/Box	#18
—	60"	51	SS	SS	9	12"	25'	2/Box	#19
—	60"	51	SS	SG	9	12"	25'	2/Box	#19

RAZOR RIBBON® HELICAL

USES: Medium security applications such as warehousing, manufacturing, parking lots, storage, and other low level security applications.

Razor Ribbon® Helical Single Coil (WIRE REINFORCED)

NSN	Dia.	Coil Loops	Strip Matl.	Core Wire	Coil Spacing	Yield	Pkg.	ASTM F 1910 Item#
5660-01-457-9757	18"	33	SS	GA	18"	50'	5/Box	#2
5660-01-495-6123	18"	33	GA	GA	18"	50'	5/Box	#2
5660-01-457-9828	18"	33	SS	SS	18"	50'	5/Box	#1
5660-01-457-9842	24"	33	SS	GA	18"	50'	5/Box	#6
5660-01-495-6277	24"	33	GA	GA	18"	50'	5/Box	#6
5660-01-457-9843	24"	33	SS	SS	18"	50'	5/Box	#5
—	30"	33	SS	SS	18"	50'	3/Box	—
—	30"	33	SS	GA	18"	50'	3/Box	—
—	30"	33	GA	GA	18"	50'	3/Box	—
—	36"	33	SS	SS	18"	50'	2/Box	—
—	36"	33	SS	GA	18"	50'	2/Box	—
—	36"	33	GA	GA	18"	50'	2/Box	—



RAZOR STRAND®

Razor Strand® barbed tape obstacle is an alternative to traditional barbed wire for low level security applications when added psychological deterrence is desired.

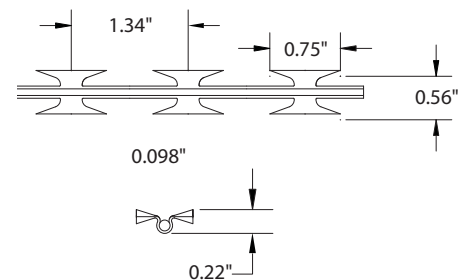
Barbed Tape shall be fabricated from zinc-galvanized steel and shall conform to ASTM A 525, Rockwell hardness (15T) 80-85. Barbs shall be alternately offset .15 - .45 inches from the plane of the tape centerline. The galvanized steel core wire shall be in accordance with ASTM A-764, Finish 2, Class II, Type 3, with a minimum tensile strength of 220,000 psi. Barbed tape width shall be .75 inches. Barbs shall be .75 inches in length and punched at 1.34 inch centers.

USES: Minimum security, construction sites, manufacturing and other low level security applications.

Barbed Razor Strand (WIRE-REINFORCED)

Description: Loosely packaged reinforced product

Length	Weight	Length	Weight
263'	15 lbs. 6.8 kg.	527'	28 lbs. 12.7kg.
351'	19 8.6	557'	30 13.6
410'	22 10	586'	32 14.5
439'	24 10.9	879'	47 21.3



DETAINDER HOOK® BARB

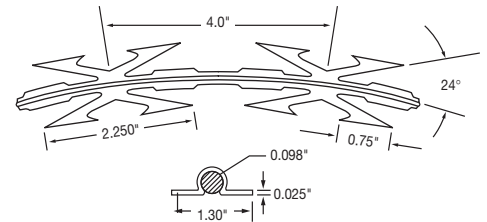
Detainer Hook® Barb barbed tape obstacle is the premier physical perimeter barrier available in the world. The newest, most effective security product being specified today, Detainer Hook Barb® barbed tape offers unequaled physical protection and psychological deterrence.

Single coil wire reinforced concertinas are fabricated from 0.025" thick AISI 430 (SS) stainless steel or ASTM A653 (GA) galvanized steel. Each roll consists of 31 coil loops with pairs of loops alternately clipped together. Clusters of four needle sharp barbs are located 4" o.c. along the spiral turns. concertina rolls are available in combinations of SS or GA, tape and core wire. Barbed tape is wrapped 230* around 0.098" diameter SS or GA core wire.

USES: Confinement applications, nuclear generating plants, petroleum/chemical storage, refiners, sensitive areas at airports and nuclear weapons storage, etc.



Detainer Hook Barb® (WIRE REINFORCED)									
NSN	Description	Dia.	Coil Loops	Strip Matl.	Core Wire	Clips	Coil Spacing	Yield	Pkg.
5660-01-495-6189	Detainer single coil concertina	19"	31	SS	GA	3	12"	15'	4/Box
5660-01-495-6161	Detainer single coil concertina	19"	31	GA	GA	3	12"	15'	4/Box
5660-01-495-6200	Detainer single coil concertina	19"	31	SS	SS	3	12"	15'	4/Box
5660-01-494-0228	Detainer single coil concertina	25"	31	SS	GA	3	16"	20'	5/Box
5660-01-494-0218	Detainer single coil concertina	25"	31	SS	SS	3	16"	20'	5/Box
5660-01-495-9585	Detainer single coil concertina	31"	51	SS	GA	5	12"	25'	3/Box
5660-01-495-9581	Detainer single coil concertina	31"	51	SS	SS	5	12"	25'	3/Box



INSTABARRIER®

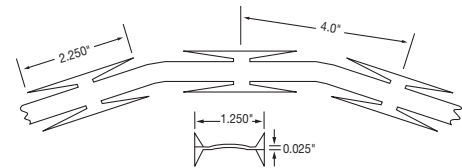
InstabARRIER® non-reinforced barbed tape is characterized as being the most versatile of all barbed tape products. Designed for both temporary and permanent use, it permits rapid recovery and reuse.

Single coil non-reinforced concertina 30" in diameter are fabricated from 0.025" thick AISI 301 SS (stainless steel). Each roll consists of 101 coil loops with pairs of loops alternately spot welded together at five locations around the circumference. Cluster of four needle sharp barbs are located 4" o.c. along the spiral turns. Non-reinforced concertinas are only available in stainless steel.

USES: Maximum security confinement applications, nuclear generating plants, petroleum/chemical storage, refiners, sensitive areas at airports and nuclear weapons storage, etc.



InstabARRIER® (NON-REINFORCED) Single Coil Concertina Rapid Deployment									
NSN	Dia.	Loops	Coil Matl.	Strip Cable	Welds	Spacing	Coil Yeild	Pkg.	ASTM F 1910 Item#
5660-01-495-6363	30"	101	SS	1	5	12"	50'	7/Box	#25

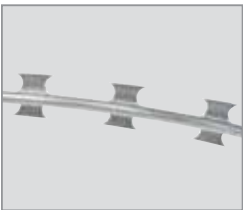


General Purpose

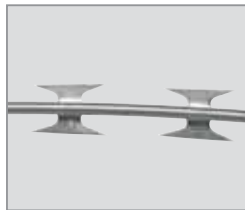
BARBED TAPE OBSTACLE TYPE II

GPBTO Type II barbed tape is a double coil, non-reinforced product made from spring quality austenitic stainless steel. Originally designed by the U.S. Military as an entanglement obstacle.

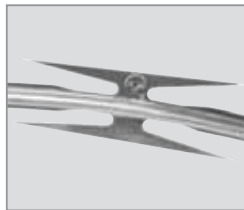
BARBED TAPE STYLES



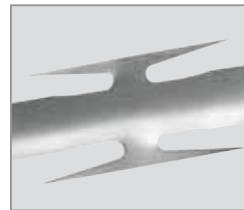
Short Barb:
Military battlefield and training barrier.



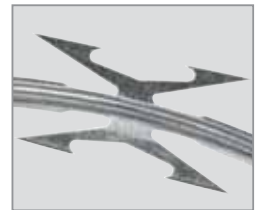
Medium Barb:
Minimum security, construction sites, manufacturing and other low level security applications.



Long Barb:
Low level confinement and detention applications. Low level utility companies, airport perimeters, warehousing, manufacturing, parking lots, storage areas.



InstabARRIER Barb:
Maximum security confinement applications, nuclear generating plants, petroleum/chemical storage, refiners, sensitive areas at airports and nuclear weapons storage, etc.

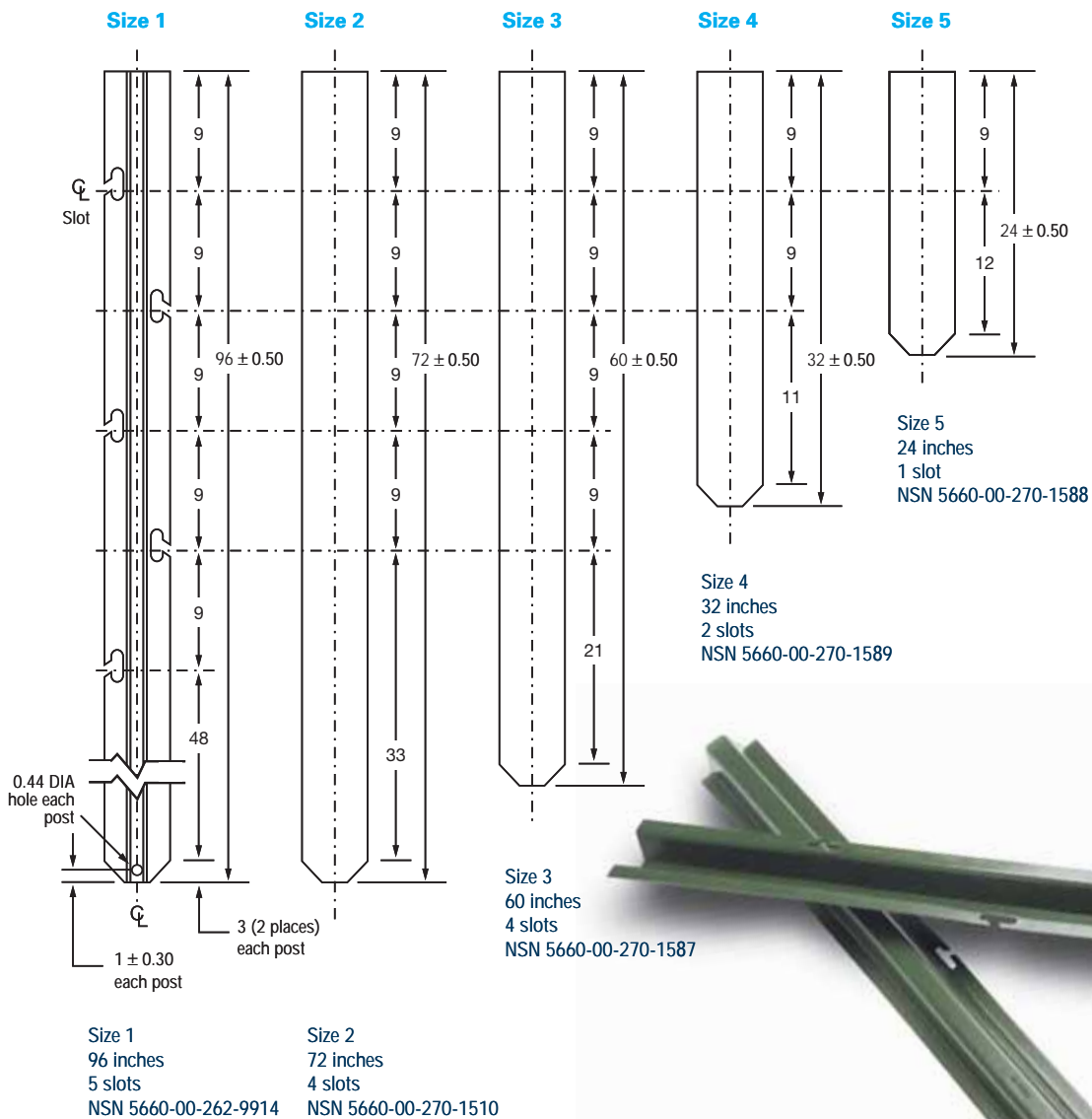


Detainer Hook Barb:
Confinement applications, nuclear generating plants, petroleum/chemical storage, refiners, sensitive areas at airports and nuclear weapons storage, etc.

FENCE PICKETS

Allied Tube and Conduit's fence picket is designed for the rapid installation of security perimeter. After the post is driven into the ground, barbed wire is inserted into the built-in slots along the length of the perimeter. This system can either stand alone or be augmented with the addition of barbed tape concertina attached to the barbed wire when needed.

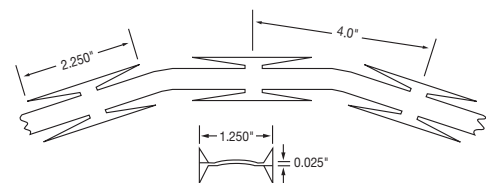
The fence picket complies with federal specifications and GSA guidelines for Fence Post, Drive Type, Spadeless. The posts, depending on length, have alternating slots on each side every 9" to accommodate strands of barbed wire. The post width is approximately 3" and can be ordered in a variety of lengths ranging from 24" to 96".



HATBOX RDU UNIT

The HatBox is designed for military and police use in varying climates and terrain conditions. This unit can be rapidly deployed in hallways, stairwells, entrances and exit areas, etc. and quickly recovered for repeated use. Allied's HatBox can be used in both indoor and outdoor applications. Each unit comes with all of the materials and tools necessary for immediate use.

Rapid dispensing anti-personnel barrier provides 50' (15m) of 30" (764mm) diameter barbed tape fabricated from 0.025" (0.64mm) thick 301 austenitic stainless steel strip hardened to Rockwell (30N) 50-55. Clusters of four needle sharp barbs shall be punched 4" (102mm) on center. Barb cluster width shall be 1.210" (31mm). Barbs shall be alternately offset from the tape's centerline 0.15" -0.45" (3.8mm - 11mm). Each coil loop shall contain (24) ± 1 barb cluster. Adjacent pair of coil loops shall be spot welded together at (5) points of approximate equal spacing about the perimeter in such a way to prevent one slipping passed the other. Weld attachments shall be capable of surviving a minimum pure tensile load of 400# (181 kg). One jacketed stainless steel wire rope 7 x 7 strand 3/64" minimum diameter shall be attached to each pair of coil openings at 12" ±2" (305mm ±51mm) 101 coil loops shall cover 50' ±2" (15.2m ±51mm). 16 gauge twist ties, gloves, stakes and tie tool furnished with each unit housed in a fiber case canister (hatbox).



USES: Riot and crowd control.

Hatbox Rapid Dispensing & Recovery Unit

NSN	Description	Dia.	Coil Loops	Strip Matl.	Cable	Welds	Yield	Pkg.
5660-01-495-6412	Single Coil Concertina Rapid Deployment	30"	101	SS	1	5	50'	One/ Container



TRIPLE STRAND RDU

Allied Tube & Conduit's Triple Strand Rapid Deployment Unit (RDU) is a quickly deployed security perimeter appropriate for emerging threats or for a permanent barrier.

With the capacity to deploy 480' of Razor Ribbon® in just two minutes, our Triple Strand RDU takes the place of a large crew working hours in the field. The unit deploys with only two people and removes the potentially hazardous conditions associated with field installation of barbed tape coils.

Rapid Deployment System consists of a stack of one (1) 60" Barbed Tape Coil on top of two (2) 30" Barbed Tape Coils. A network of structural support trusses every 11' add rigidity and allow accessories to be fastened to deployment unit. Additionally support trusses come with provisions for ground stakes and an integral cable system to assist in deployment over any type of terrain. Deployment time is two (2) minutes and retraction time is between 12 to 17 minutes. Deployment length is 480 feet. Package size is 8" high by 62" wide. Ship weight is 2,100 lbs.

The Barbed Tape is standard galvanized military BTC with galvanized high tensile strength core wire. Coils are fastened together in an alternate loop arrangement to minimize any intrusion attempts.

USES: Economical, simple and reusable system to provide the military, police, municipalities, and commercial / industrial security integrators with instant physical perimeter protection

Unit Design

We start with two thirty inch concertina coils side-by-side on the ground with one sixty inch concertina coil sitting on top to provide a 6 1/2 foot high security barrier.

We place rigid stanchions every eleven feet to provide support. A heavy cable ensures the unit is not over-extended or collapsed between stanchions. The design ensures the perimeter is stable. Stepping through this barrier is impossible without extensive efforts to cut and remove the wire.

It's easily integrated with electronic sensing equipment.

Standard Materials

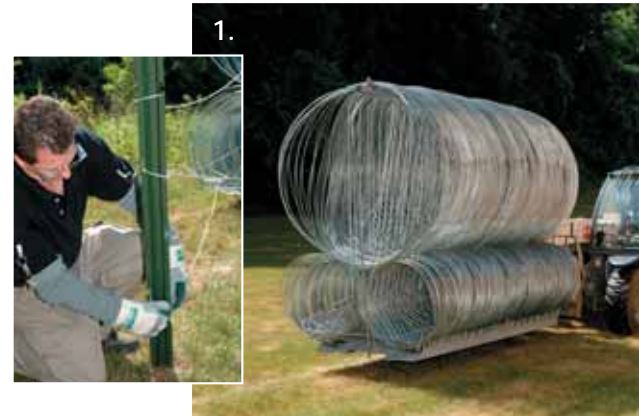
The Triple Strand RDU comes standard with Allied's short barb material. This material was specifically designed for military applications and is considered a "delay" barrier, like steel Velcro. However, the Triple Strand RDU can be customized with any of the full line of Razor Ribbon® barbed tape products including our Detainer Hook® barb.

General Specifications

Minimum Height (length of unit):	90"
Nominal Width:	62"
Standard Length:	480'
Weight w/ Magazine:	2400 lbs.
Material:	Galvanized or Stainless Steel

Shipping: Designed to US Airlift Standard
463 pallets & related systems

3 easy steps deploys nearly 500' of Razor Ribbon® in just 2 minutes



1. SET Set the RDU in place using any vehicle with fork attachments. A trailer option is available.



2. STRETCH Deploy the unit with a two man team. In just two minutes, a 480' triple strand barrier is in place.

3. SECURE Anchor the supports in place.

Trailer options available.

ACCESSORIES

OBEX™ Brand Concertina Wire Gloves

Allied Tube & Conduit introduces the new OBEX Concertina Wire Gloves. With an extended coverage area, ridge design for added flexibility and double layer of protection throughout, these gloves were designed specifically for handling barbed tape products. Made from **SuperFabric®** material by HDM Inc., these gloves are cut, puncture and abrasion resistant.

Cut Resistant: ASTM Level 5 providing extreme protection against cuts.

Puncture Resistance: High protection against razor barbs, thorns and needles.

Abrasion Resistance: Protection when working with highly abrasive.

Sharps Resistance: Great protection against razor wire, barbs, needles, glass, etc.

Coverage: Full protection across entire glove. Extends to mid forearm.

Washability: Machine washable to keep gloves looking and performing like new.



Ground Stakes

Required to anchor ground based installations, usually positioned at 10 foot intervals.



Wire Tie Twist Tool

Used to twist wire ties in fence anchored installations



Hog Rings

For fence anchored installations, Hog Rings are used to connect the barbed tape to the fence fabric.



Warning Signs

Used to alert unsuspecting persons of imminent danger.



Hog Ring Pliers

Used to compress hog rings in fence anchored installations.



Arm Guard

Used to protect the installer, the arm guard covers from the hand to the elbow.



Wire Ties








Used to compress hog rings in fence anchored installations.




Sleeve Guard

Used to protect the installer, the sleeve guard covers from the wrist to the shoulder.

Selector Guide

Product Name	Diameter (Inches)	(mm)	Loops	Clips	Loop Spacing (Inches)	(mm)	Length Per Roll (Feet)	(M)	Weight Per Roll (lbs)	(kgs)
BTC Barbed Tape 	18	450	56	3	16	406	37	11	15	6.8
	28	700	56	3	21	533	50	15	24	10.8
	38	954	56	5	21	533	50	15	31	14
Maze® 	18	450	31	3	12	300	15	4.5	11	5
	24	600	31	3	16	400	20	6	17	7.7
	30	750	31	3	16	400	20	6	22	10
	36	900	31	3	16	400	20	6	25	11
	18/24	450/600	31/31	3	12	304	15	4.5	28	13
	24/30	600/750	31/31	3	16	406	20	6	39	18
Supermaze® 	30	750	51 (81)	5	12	300	25 (40)	7.5 (12)	32 (52)	15 (24)
	36	900	51 (81)	5	12	300	25 (40)	7.5 (12)	37 (59)	17 (27)
	40	1000	51 (81)	5	12	300	25 (40)	7.5 (12)	44 (68)	20 (31)
Nato Barrier® 	40	1000	51 (81)	7	12	300	25 (40)	7.5 (12)	44 (68)	20 (31)
	60	1500	51 (101)	9	12	300	25 (40)	7.5 (15)	65 (127)	30 (58)
Razor Ribbon® Helical 	18	450	33	-	18	450	50	15	11	5
	24	600	33	-	18	450	50	15	17	7.7
	30	750	33	-	18	450	50	15	22	10
	36	900	33	-	18	450	50	15	25	11
Detainer Hook® Barb 	25	635	31	3	16	400	20	6	19	9
	31	787	31 (51)	3 (5)	16 (12)	400 (300)	20 (25)	6 (7.5)	24 (35)	11 (16)
	37	939	51	5	12	300	25	7.5	40	18
	41	1040	51	7	12	300	25	7.5	47	21
	61	1560	81 (101)	9	12	300	40 (50)	12 (15)	110 (139)	50 (63)
Instabarrier® 	24	600	101	3 welds	12	300	50	15	44	20
	30	750	101	5 welds	12	300	50	15	53	24
	40	1000	101	7 welds	12	300	50	15	71	32
	60	1500	101	13 welds	12	300	50	15	106	48
Gen. Purpose BTO	24/30	600/750	33/33	-	24	600	66	20	36	16
		Length (ft)	Weight		Length (ft)	Weight				

Razor Strand 	263	15 lbs.	6.8 kg.	527	28 lbs.	12.7kg.
	351	19	8.6	557	30	13.6
	410	22	10	586	32	14.5
	439	24	10.9	879	47	21.3

Razor Ribbon® Helical, Maze®, Supermaze®, Nato Barrier®, Detainer Hook® Barb

Tape Material: 430 Stainless Steel / 1" wide prior to forming (DHB 1.375")

Core Material: Galvanized or Stainless Steel / .098" Diameter

Barb Length / Spacing: 2.4 (±.10") tip/tip / 4" on center

Non-Reinforced Instabarrier®, General Purpose BTO-Type II

Tape Material: 301 Stainless Steel / 1.21" wide prior to forming

Barb Length / Spacing/Offset: 2.4 (±.10") tip/tip / 4" on center / Alternately offset .15" - .45

NOTES: Razor Ribbon® Helical, Maze®, Supermaze®, Nato Barrier® and Detainer Hook Barb® products may be ordered with both galvanized tape and high-tensile galvanized core wire. Some products are available with more or fewer loops per roll. Additional clips per loop are available upon request. In situations where increased product density is desired, reduced coil spacing of wire-reinforced products will affect deployment coverage. Offset barb configuration also available for Maze®, Supermaze®, and Nato Barrier® products.

Warning: The manufacturer recommends that all RAZOR RIBBON® barbed tape obstacles that are mounted on walls and fences have a minimum installation height of 2.13 meters (7 feet) from ground level. The material shall be installed in such a manner as to avoid any and all contact by non-intruding pedestrian traffic. It shall also present an open, obvious and highly visible condition of danger. RAZOR RIBBON® barbed tape obstacles should only be used as ground barriers in proper locations, such as correctional facilities, military bases, or other highly sensitive areas. RAZOR RIBBON® barbed tape obstacles are not meant to be used as ground barriers in commercial, light industrial, or other private applications. RAZOR RIBBON® barbed tape obstacles are not manufactured for use in any residential applications. RAZOR RIBBON®, INSTABARRIER®, DETAINER HOOK® BARB, NATO BARRIER® and MAZE® are registered trademarks.

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tyco

*Electrical &
Metal Products*



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