

# The Security Roll

**protects people and secures objects**

**through Graepel barriers**

**protection by the roll**

# Anti-intrusion installations made from wire ...

**Graepel barriers protect against aggression of any kind**



Today's high-tech civilization faces a wide range of attacking potentials such as burglaries, sabotage, terrorism and other types of assaults. For this reason there is a growing necessity to protect people and objects from any aggressions. The means for an effective protection are limited for humanitarian reasons and should, therefore, be of a defensive nature.

A defensive and yet an efficient measure is the utilization of Graepel barrier products.

Barbed tape or barbed tape concertina rolls in various configurations fulfill this protection requirement.





## **Permanent barrier installations or mobile anti-intrusion installations with barbed tape or barbed tape concertina barriers**

Barbed tape concertina rolls (BTC) are spirally coiled and connected to form a cylindrical diamond pattern, and when extended, this should be in a concertina manner. BTC rolls types Barrier S, SZ, Z and ZL can be used as:

- Any permanent single or multiple anti-intrusion barriers with high protection effects as well as quickly deployable and efficient mobile barriers. These barriers can be retracted for reuse. The utilization of Graepel's wide range barrier products is multi-lateral.
- Perimeters in any shape or configuration can be effectively secured by different Graepel barbed tape concertina methods in order to achieve a non-passable barrier.
- Existing security systems such as walls, fencing, etc. can be replenished through reinforcement by using BTC rolls.
- Single BTC rolls such as types S, SZ, Z or ZL will achieve effective anti-intrusion barriers.
- Particularly effective protection within perimeters is possible by using multiple barriers of three and six BTC rolls pyramides surface barriers made of any desirable number of BTC rolls.

It will almost be impossible for intruders to overcome these barriers without extensive aids and assistance and would result in injuries.



# ...defensive and effective

## Increased protection of objects through

- BTC rolls types Z and ZL
- These BTC rolls have a much greater protection affect than BTC rolls of types Barriers S or SZ. The optical effects of these rolls are much higher due to their long needle-sharp barbs and their tightly held loop spacing which prevents any penetration.

## Technical description

Barbed tape concertina (BTC) types Barrier S, SZ, Z and ZL consist of barbed tape which is clenched around a spring steel wire. This high tensile strength spring steel wire prevents any deformation and has a spring-resilient effect. Any kind of manipulation with regular hand tools is impossible. Depending on the diameter of BTC rolls, each adjacent loop shall be clipped together in 3, 5 or 7 clips equally spaced per loop for the entire length of the roll to form a cylindrical diamond pattern. The barbed tape concertina rolls are available either in stainless steel, galvanized or galvanized and bitum-coated or as a combination of galvanized spring steel core wire and clenched around stainless steel barbed tape.

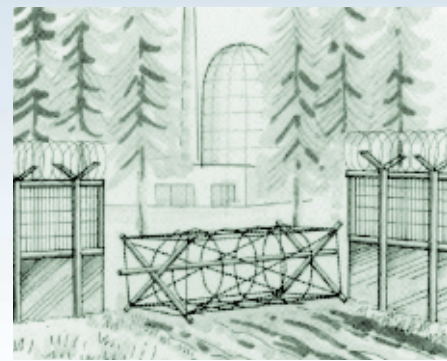
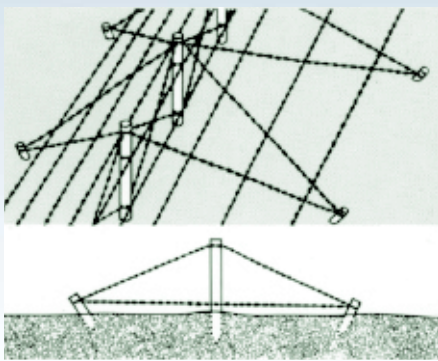
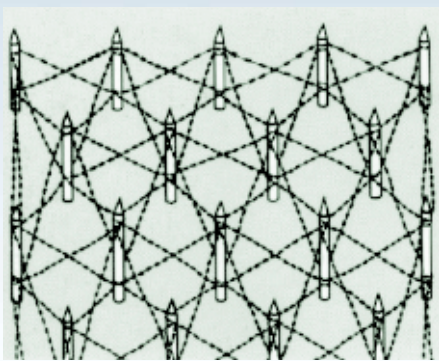




# Barrier B and BS

## Barbed Tape, Type Barrier B

This product can be used on fence tops, as large surface area trip barriers and as multiple apron barriers and provides effective protection against attack and intrusion. Moreover, it also can be used in conjunction with other Graepel barbed tape products. It is advantageous to use a special dispenser which twists the tape during deployment. Additionally, for reuse of the barbed tape, a special rewinder is required.



## Barbed Tape, Type Barrier BS

This product is basically similar to Barrier S except that the loops are not clipped together. Therefore, it can be installed in the same manner as barbed tape Barrier B. However, the tensile strength is much higher due to the spring steel core wire, and when extended it will reach 170 m.

- 1 Surface trip barrier
- 2 Apron barrier
- 3 Quick road barricade
- 4 Carrying case (six spools / case)
- 5 Special dispenser
- 6 Special rewinder

# Barrier FD

## More protection through Graepel flat barbed tape roll

The flat barbed tape rolls is basically similar to Barrier S except that the loops are differently clipped to form a flat roll. These rolls are suitable for additional get-over protection for fencing, fencing tops and for replenishment of existing fencing.



# Graepel's Production Program

**Barrier B**



**Barrier Z**



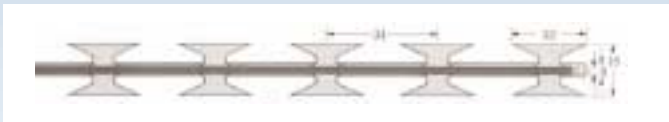
**Barrier BS, S und FD**



**Barrier ZL**

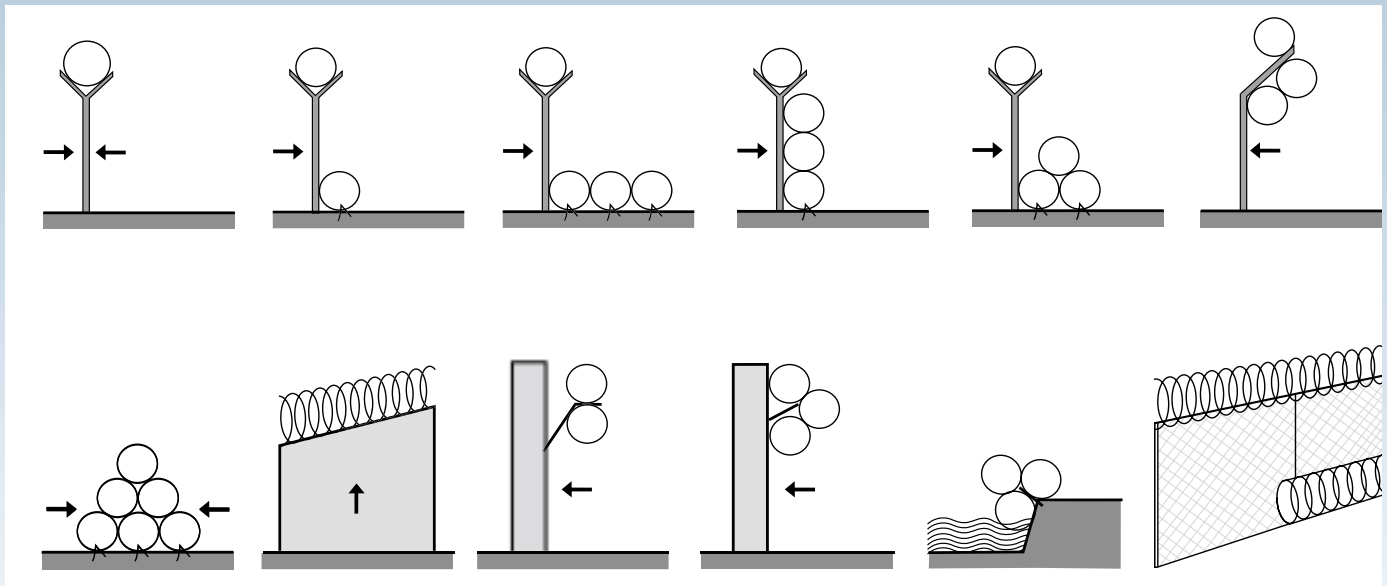


**Barrier SZ**



Barbed tape concertina rolls, Type	Description	Roll dia. stored condition	Loop spacing	No. of loops	Extended length	Weight in kg	Order No.	
							galvanized	stainless steel 1.4301
<b>Barrier B</b>	<b>Barbed tape</b> 6 spools/case	-	-	-	6 x 50	14,4	51	651
<b>Barrier BS</b>	<b>Barbed tape</b> with spring steel core wire	955	-	(56)	170	13,5	0132	6131
<b>Barrier S*</b>	<b>size S 1</b>	955	-	56	14-16	14,0	1561	6561
	<b>size S 2</b>	800	-	56	14-16	11,8	2561	7561
	<b>size S 3</b>	690	-	56	14-16	10,1	3561	8561
<b>Barrier SZ*</b>	<b>size SZ 1</b>	975	-	56	14-16	15,9	1000	1501
	<b>size SZ 2</b>	815	-	56	14-16	13,4	1500	1501
	<b>size SZ 3</b>	700	-	56	14-16	11,6	1600	1601
<b>Barrier Z*</b>	<b>size Z 1</b>	975	-	56	10	16,6	0156	0656
	<b>size Z 2</b>	760	-	56	10	13,0	0256	0756
	<b>size Z 3</b>	650	-	56	10	11,4	0356	0856
<b>Barrier ZL*</b>	<b>size ZL 1</b>	955	-	56	10	19,8	2102	2101
	<b>size ZL 2</b>	800	-	56	10	16,6	2200	2201
	<b>size ZL 3</b>	640	-	56	10	13,5	2300	2301
<b>Barrier FD*</b>	<b>size FD 1</b>	500	220	70	14	9,2	136	6136
	<b>size FD 2</b>	700	300	54	14	9,5	134	6134

## Examples for application with Graepel's „BTC“ Barbed Tape Concertina Rolls



### Accessories

	Order No.	Description
	051	Dispenser for „Barrier B“
	052	Rewinder for „Barrier B“
	104/2	Special plier for C-clip
	140	Special clip, stainless steel, 4 mm dia.

	Order No.	Description
	135	Special clip 2, stainless steel, 3,5 mm dia.
	101	Ground spike, 13–15 mm dia., 600 mm long
	110	Ground anchor 40 x 40 x 4 x 600 mm long
	109	Protecting gloves „Pionier“