

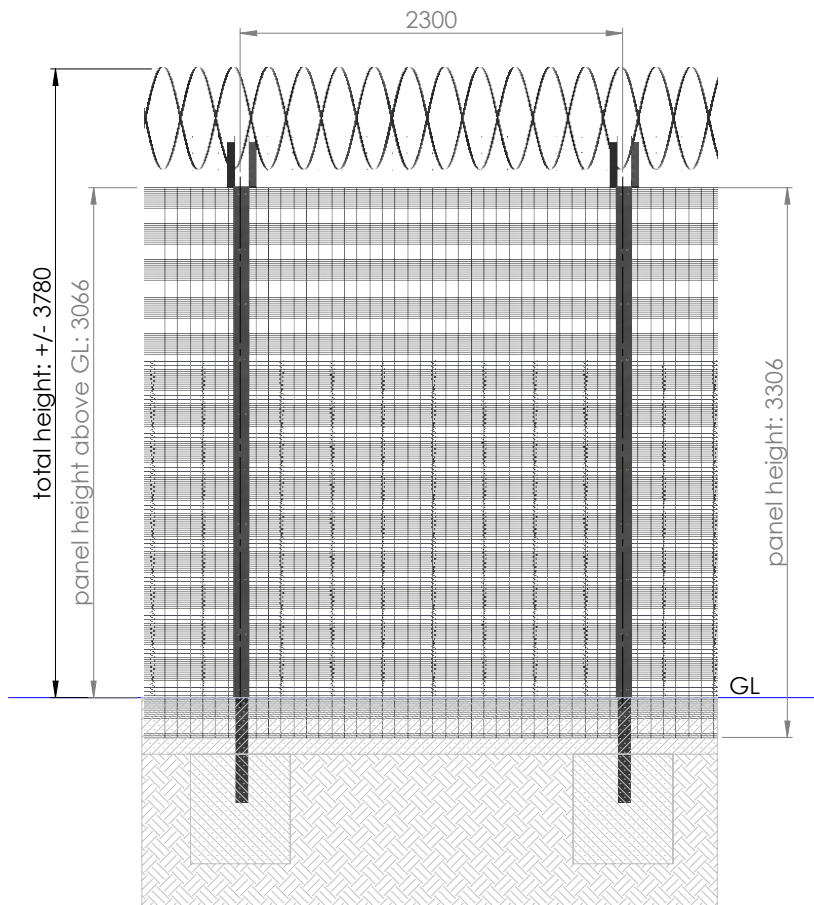
ANTI GRIND FENCE COMPLIANT FENCING SOLUTION

AMAN 6.8, anti-grind fence system is tested according to the ASTM F2781. The combined 3M high layer with special Securifor[®] fencing wall stands with rectangular posts which are fixed in with concrete, or posts on footplate erected with posts every 2.3m C-C distance.

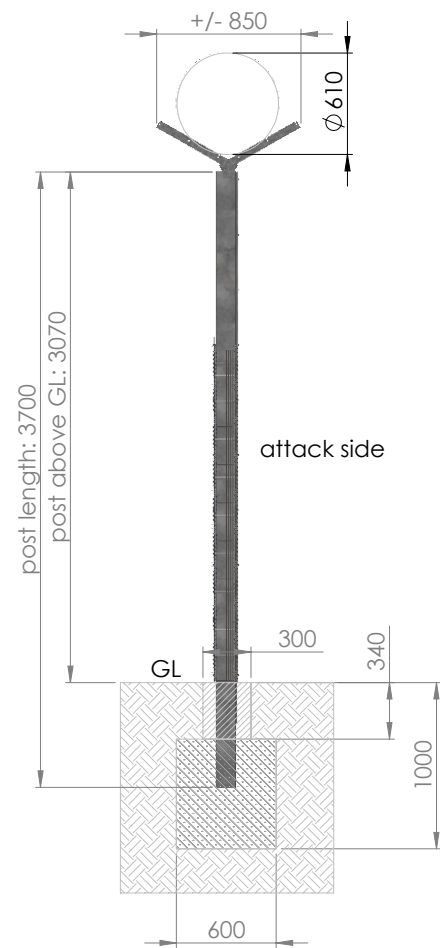
Between the double layer of Securifor panels there are mounted vertical panels that connect the front and back panels with spirals.

Securifor front panels are made out of horizontal wires forming small meshes, 76.2mm x 12.7mm, which are difficult to climb or cut.

Primary and secondary Attack Mitigation Barrier consisting of high tensile, 500NM galvanized wires and PES coated if required, which further extends the lifetime in corrosive environments.



Front

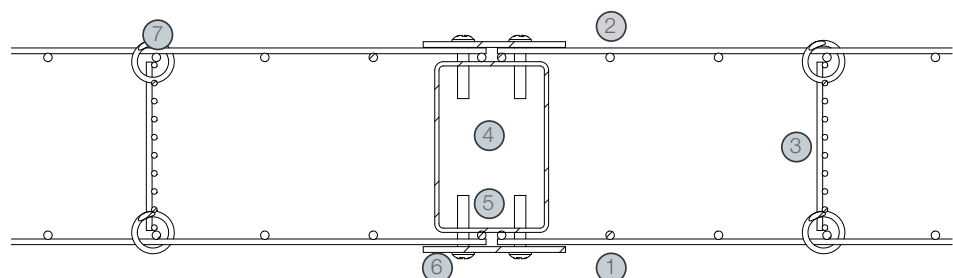


Side

Parts:

1. Front panels Securifor
2. Back panels Securifor
3. Small vertical panels Securifor
4. Rectangular posts 120mm x 80mm
5. Coverplates
6. One way bolt
7. Spirals

Panel & post fixing detail:



AMAN[®] 6.8

RAW MATERIALS

Panels	Wire rod used is in accordance with the European Standard: ISO 16120-2.
Base steel	The used steel is construction steel: 10025-2.
Coverplate	Steel profile: EN 10346. Designation of steel: S250. If DX51D or S220 quality is used in accordance to EN 10346, the yield strength shall be minimum 235 N/mm ² . Chemical steel composition: C: <0.20%, Si: Max. 0.60%, Mn: Max. 1.70%, P: Max. 0.12%, S: Max. 0.045% Steel strip is continuously hot-dip galvanized: EN 10346 Z275. Dimensions: 100x4mm length. 3072mm.
Spirals	Wire rod used is in accordance with ISO 16120-2, Designation of wire rod: C9D. Chemical composition of the wire rod: C: <0.10%, Si: <0.30%, Mn: 0.30 – 0.60%, P: 0.035%, S: 0.035%. The quality of the Zinalu [®] slabs used is in accordance with ASTM B 750. Length of spiral: 2010mm. Tolerance on length: + 5mm. Internal diameter for spiral: 2mm Checked on 6 twists: 152.4mm + 1mm.
Wire diameters and tolerances	Front & back panel: Horizontal wires galvanized wire diameter 3.65mm + 0.07mm. Vertical wires galvanized wire diameter 5.65mm + 0.07mm. Tolerances: ISO 22034-2.
Wire tensile strength	Min. 500 N/mm ² .
Zinc used for galvanization bath	Ingots used are in accordance with ISO 1461.
PES	If required.

NORMATIVE REFERENCES

ISO 16120-2	EN 1179	EN 10346	ISO 22034-2
EN10245-2	EN 10244-2	ASTM B 750	EN 10223-4

PROPERTIES OF WELDED SECURIFOR PANELS

Mesh sizes and tolerances	The Securifor frontpanels rearpanel 76.2mm x 25.4mm tolerance --> +/- are welded with a combination of horizontal and vertical wires. Distance between the vertical wires (c/c): 76.2 + 2mm. Distance between the horizontal wires (c/c): 12.7 + 1mm.
Welding strength of the panels	A test specimen shall consist of four welds selected at random from the panel. The average weld shear strength value shall be minimum 50% of the breaking load of the smallest diameter wire and calculated from the minimum specified tensile strength of 500 N/mm ² . No individual weld shall be below 50%.
Length of wire overhangs on panels	In order to keep the full strength of the edge welds, overhangs may have a length -0 +3mm. Sharp cut edges are avoided as much as possible. Handling with gloves is advised.
Panel dimensions and tolerances	Securifor front and back panels. Front panel (c/c): 2286 x 3052mm, tolerance +/- 6mm Rear Securifor panel (c/c): 2286mm x 2006.6mm, tolerance: +3mm. Vertical Securifor Panel (c/c): 1981 x 114mm, tolerance: + 3mm.

RECTANGULAR POSTS

Mesh sizes and tolerances	The rectangular posts are made out of continuously hot-dip zinc coated steel sheet (Sendzimir) and subsequently polyester coated.
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NORMATIVE REFERENCES

EN 10025-2	ISO 1461	EN 10305-5	EN 10219-2
ISO 2768-1	ISO 9227	ISO 11507	

FORCED ENTRY TESTING

Threat level	Structured test	Protective rating
Low	Pass	16.7
Medium	Pass	13
Aggressive	Pass	6.8

