



WITH CARE OF FUTURE



## STEEL ROAD GUARDRAILS

Quality system of the PrJSC «The Plant «Fregat»  
is certified according to ISO 9001:2008



## ROAD SAFETY BARRIER

### ONE-SIDED 11DO, DOUBLE-SIDED 11DD

One-sided road safety barrier beams are mounted along road and they prevent vehicle from driving off the road. Double-sided road safety barrier beams are mounted along the road median at four and more striped roads.



**Drawing 1 A**

N°	1	2	3	4	5
Post profile	Channel beam N° 12		Channel beam N° 14		Chan. beam N° 16
Post distance, m	2	3	1,5	2	2
SB-beam thickness, mm	3	4	3	4	4
Restraint ability E, kJ	128	128	265	210	300
Containment level	H1	H1	H1	H1	H2



**Drawing 2 A**

N°	6	7
Post profile	C125x62,5 x25x5	
Post distance, m	2	1,5
SB-beam thickness, mm	3	3
Restraint ability E, kJ	400	460
Containment level	H2	H3



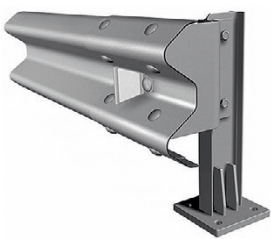
**Drawing B**

N°	8	9	10
Post profile	Chan. beam N° 16	C125x62,5 x25x5	
Post distance, m	2	1,5	2
SB-beam thickness, mm	4	3	4
Restraint ability E, kJ	300	300	300
Containment level	H2	H2	H2

## BRIDGE GUARDRAILS

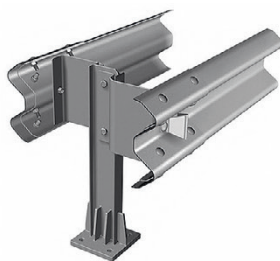
### ONE-SIDED 11MO, DOUBLE-SIDED 11MD

Bridge guardrails are mounted at road bridges and crossovers. The main aim of their mounting is preventing vehicle from road exit from driving off the road.



**Drawing 1 E**

N°	1	2
Post profile	I-beam N° 14	
Post distance, m	1,5	1
SB-beam thickness, mm	4	4
Restraint ability E, kJ	280	300
Containment level	H2	H2



**Drawing 2 E**

N°	1	2
Post profile	I-beam N° 14	
Post distance, m	1,5	1
SB-beam thickness, mm	4	4
Restraint ability E, kJ	280	300
Containment level	H2	H2



**Drawing 3 E**

N°	1
Post profile	I-beam N° 14
Post distance, m	1,5
SB-beam thickness, mm	4
Restraint ability E, kJ	300
Containment level	H2



**Drawing 4 E**

N°	1
Post profile	I-beam N° 14
Post distance, m	1
SB-beam thickness, mm	4
Restraint ability E, kJ	460
Containment level	H3



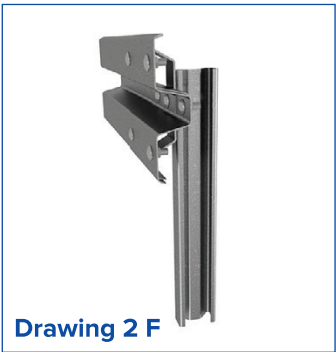


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## ONE-SIDED GUARDRAILS EUROPEAN TYPE



Drawing 1 F



Drawing 2 F

N°	1
Post profile	Sigma post 107x55x4
Post distance, m	2
SB-beam thickness, mm	A
Restraint ability E, kJ	82
Containment level	N2A

N°	1
Post profile	Sigma post 107x55x4
Post distance, m	2
SB-beam thickness, mm	B
Restraint ability E, kJ	82
Containment level	N2A

PrJSC «The Plant «Fregat» is one of the biggest suppliers of guardrails in Ukraine and leader for export to Europe among Ukrainian enterprises (Germany, Spain, Netherlands).

Fregat has full manufacturing cycle extending from roll cutting, roll forming, perforating and to hot dip galvanizing (70-120 microns) in own galvanizing workshop.

The characteristics of the guardrails are confirmed by field test report at certified testing ground.

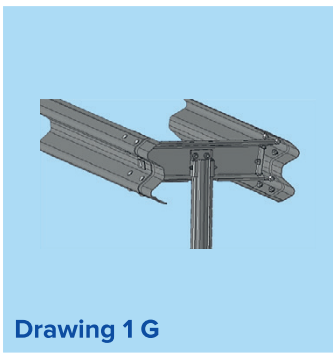
## END-PIECES EUROPEAN TYPE

SINGLE-SIDED. DOUBLE-SIDED.

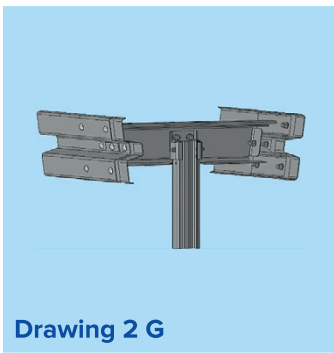
Fregat produces a wide range of elements for guardrails both standard and according to the purchaser's drawings. The most popular elements are single-sided and double-sided end-pieces, corner pieces, posts with welded baseplates, posts for road signs, brackets, etc.



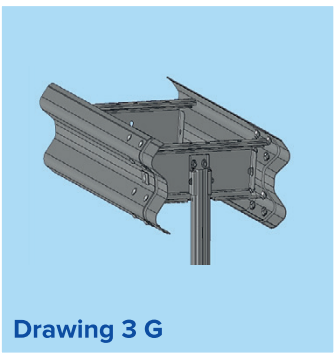
## DOUBLE-SIDED GUARDRAILS. EUROPEAN TYPE



Drawing 1 G



Drawing 2 G



Drawing 3 G

N°	1
Post profile	Sigma post 107x55x4
Post distance, m	4
SB-beam thickness, mm	A
Restraint ability E, kJ	128
Containment level	H1A

N°	1
Post profile	Sigma post 107x55x4
Post distance, m	4
SB-beam thickness, mm	B
Restraint ability E, kJ	128
Containment level	H1A

N°	1
Post profile	Sigma post 107x55x4
Post distance, m	2++
SB-beam thickness, mm	A
Restraint ability E, kJ	280
Containment level	H2A







Our company has implemented a large-scale program of technical modernization of the guardrail production. We added a slitting line, a bending line, completed overhaul and modernization of the press equipment.

As a result, PrJSC «The plant «Fregat» provides high quality products, production in short run and competitive prices.



**SAFETY**  
**LONG OPERATING LIFE**  
**EASE OF ASSEMBLING**  
**COST EFFECTIVENESS**



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