

PASS+CO®
«PASS+CO UA» LLC



MAKE ROADSIDE SAFETY
ЗРОБИТИ ДОРОГИ БЕЗПЕЧНИМИ
YOLLARI GÜVENLİ YAPIN
FÜR SICHERE STRAßEN
ЖОЛДАР ҚАУІПСІЗ ЕТУ FACEM DRUMURI SIGURE
YO'LLAR XAVFSIZ QILISH
გავხადოთ გზები უსაფრთხო

WWW.PASSCO.COM.UA

Who we are?

PASS+CO is part of the German company PASS+CO.DE, founded in 1852 in the Siegen region, which specializes in steel processing and manufactures advanced road safety products.

PASS+CO UA offers solutions and services related to Road Safety.

Our mission:

- Optimize existing and new road projects through the implementation of efficient solutions;
- Offer the latest technologies and technical solutions to ensure safety on the roads of Ukraine and abroad;
- Improve road safety in Ukraine and abroad.

Our team consists of professionals with extensive international experience in the field of road safety, as well as reliable partners in Germany, the USA, Belgium, Kazakhstan, Uzbekistan, Turkmenistan, Moldova and other countries.



OUR SOLUTIONS AND SERVICES



ROAD GUARDRAILS

- Containment levels from N2 to H4b
- All systems meet the requirements of EN1317

«T-RAIL» system



«T-RAIL» system is the optimal solution for projects where the width of the median or shoulder of the road does not allow the use of a standard guardrails. With a width of 180 mm and post spacing of 2 m, the T-RAIL system is one of the most efficient systems that can be used as single-sided and double -sided guardrail..



BRIDGE GUARDRAILS

Our solutions for bridges range from, H1 to H4b.

Main advantages:

- Optimal technical characteristics (minimum working width and dynamic deflection);
- no welds during installation;
- Meet the requirements of EN1317.



OUR SOLUTIONS AND SERVICES



CRASH CUSHIONS

The crash cushions absorbs energy during a frontal collision by gradually deforming the internal elements that actuate the outer beams, folding them telescopically. The system holds the vehicle in a controlled manner, ensuring efficiency and minimizing injury to road users in the event of a collision. Meet the requirements of EN1317-3.



END TERMINALS

END terminal helps to stop the vehicle gradually and avoid the penetration of the elements of the guardrail into the vehicle. Meet the requirements of EN1317-4.



Motorcycle protection systems

Installed along the guardrail to restrain and redirect the motorcyclist during a collision. The system helps prevent direct impact with hazardous guardrail elements such as posts and prevents the rider from sliding between the posts. Meet the requirements of EN 1317-8

«PASS+CO UA» LLC
Kyiv, , Bolsunovska str. 8

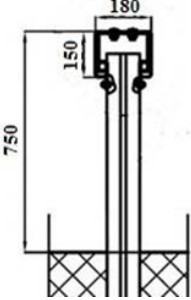
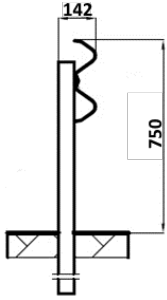
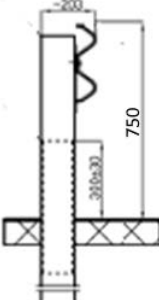
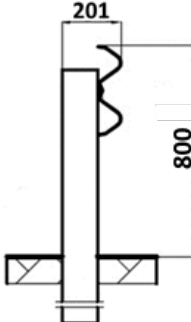
+38 044 227-23-27
info@passco.com.ua

PASS+CO®
«PASS+CO UA» LLC



ROAD GUARDRAIL



Scheme	Post distance, m	Marking	Containment level, Kj	Weight of 1 lm., kg
	2,0	H1-A- W4 (T-Rail)	128	28,0
	1,33	H1-A-W3	128	20,1
	2,0	H1-A-W4	128	17,0
	4,00	H1-A-W3	128	14,5
	1,33	H2-A-W4	280	21,0



BRIDGE GUARDRAIL



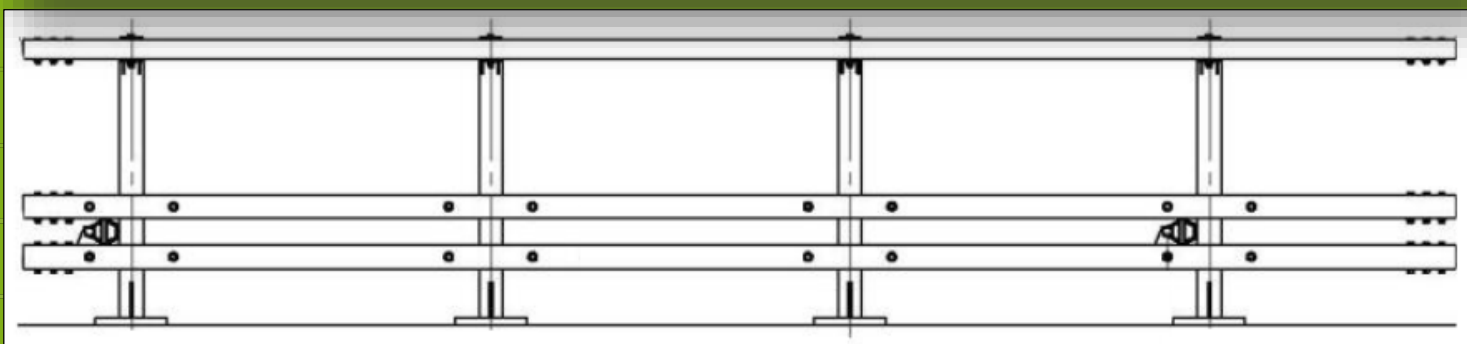
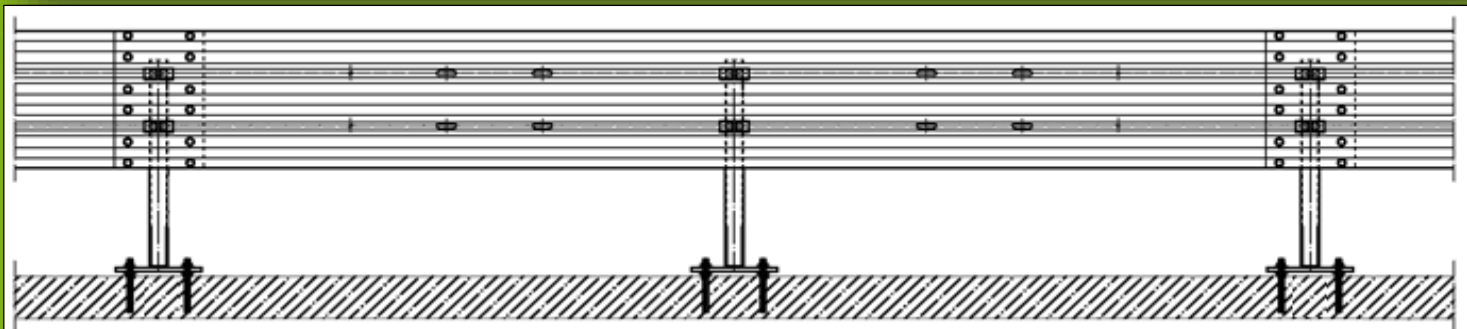
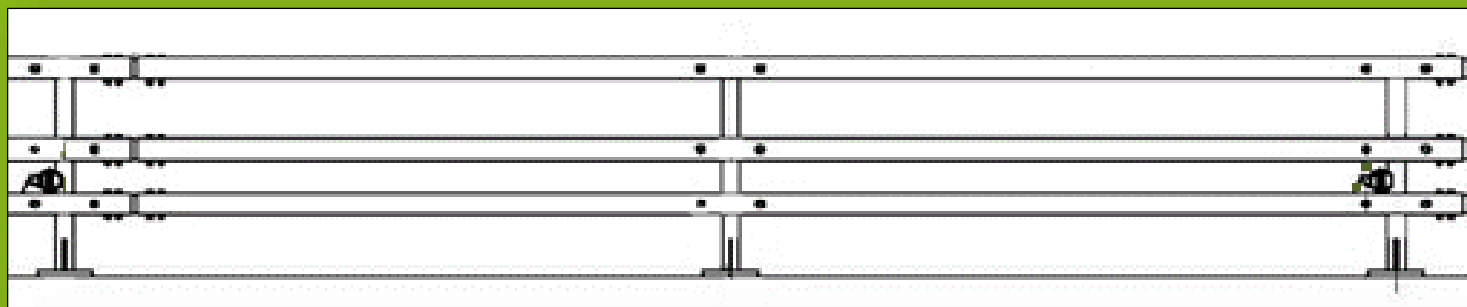
Scheme	Post distance, m	Marking	Containment level, Kj	Weight of 1m, kg
	3,0	H2W3	280	55,0
	2,0	H2W4	280	27,2
	1,5	H4bW1	720	98,0



ADVANTAGES OF BRIDGE GUARDRAILS



1. Minimum working width(W) and dynamic deflection(D);
2. The absence of welds during the installation of guardrail elements, which allows no damage to the galvanized coating.
3. Different design options with a containment level H2.
4. Crash tested according to EN1317;
5. Modern design and fast installation.





CRASH CUSHIONS



Type	Speed level km/h	(ASI)	Length (mm)	Height (mm)	Width (mm)
parallel	110	A	8550	808	608
wide	110	A	8340	780	3000 (1905)
parallel	100	A	6550	808	608
wide	100	B	7390	780	3000 (2040)
parallel	80	A	4650	808	608
wide	80	A	5590	780	3000 (2300)
parallel	50	A	3700	808	608
wide	50	A	3600	780	3000 (2570)

«PASS+CO UA» LLC
Kyiv, , Bolsunovska str. 8

+38 044 227-23-27
info@passco.com.ua

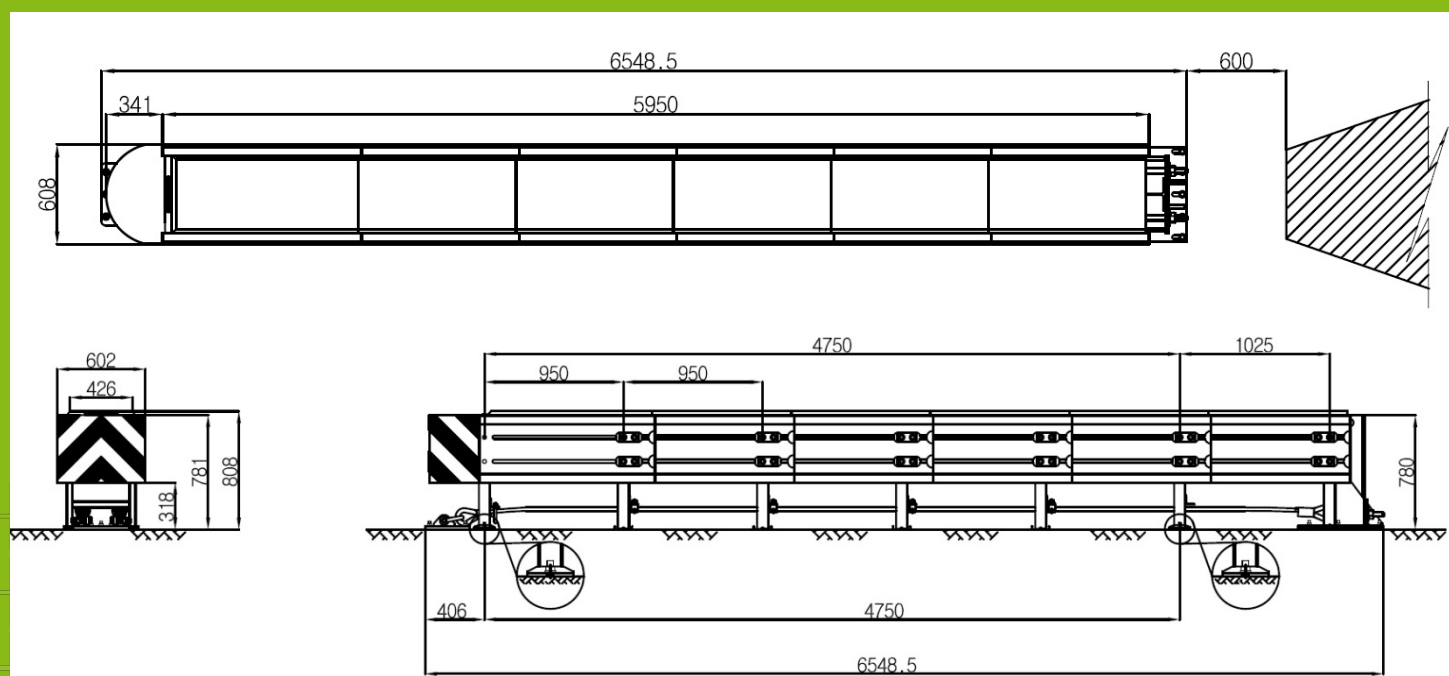
PASS+CO®
«PASS+CO UA» LLC



ADVANTAGES OF CRASH CUSHIONS



1. ASI (Injury Severity Index) - A ($\leq 1\text{m}$) for all types
2. The main elements of crash cushions are the same for all types (easy maintenance)
3. All parts are hot dip galvanized according to ISO 1461:2009
4. All types of crash cushions are partially recoverable after impact (by 50% - 90%)
5. Crash tested according to EN 1317-3
6. Modern design, fast installation and competitive price.



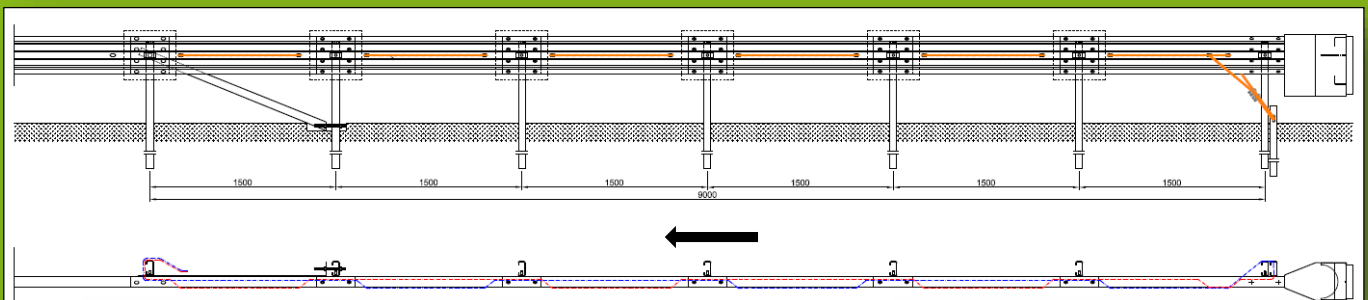


END TERMINAL



The End terminal is used to prevent the severe consequences of a vehicle collision on highways. The vehicle, colliding with the Terminal, leads to the collapse of the metal posts of the guardrail. Due to the presence of grooves in the sections of the beams, the assembly of the structure is telescopically achieved, and the vehicle gradually stops. Thus, the end element or beam section is prevented from entering the interior of the vehicle in the event of a collision.

Name	Type	Class	Speed limit(km/h)	(ASI)	Length(mm)
END terminal	single-sided	P2	80	A	6000
END terminal	Single-sided	P4	110	A	9000



«PASS+CO UA» LLC
Kyiv, , Bolsunovska str. 8

+38 044 227-23-27
info@passco.com.ua

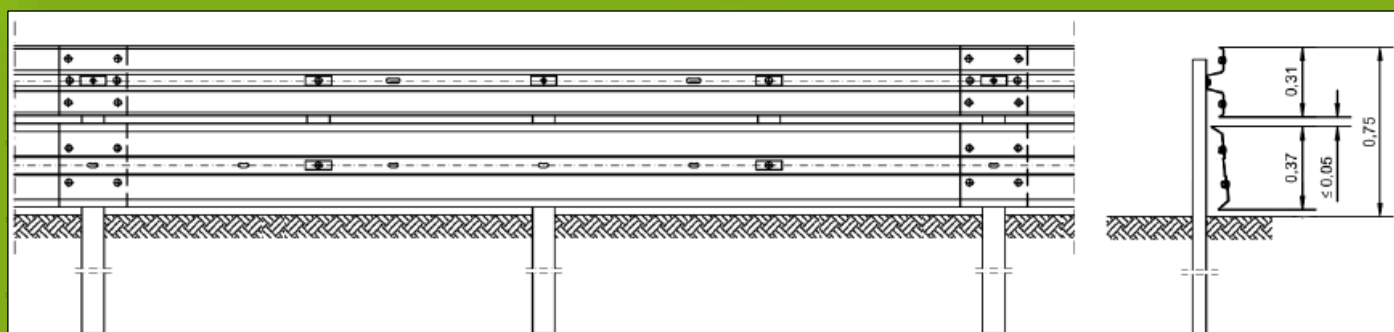
PASS+CO®
«PASS+CO UA» LLC

MOTORCYCLE PROTECTION SYSTEM (PASS+CO MPS)

The system helps prevent direct impact with hazardous guardrail elements such as posts and prevents the rider from slipping between the posts and further contact with any potential hazard that may be behind the guardrail.

Places of Installation

- on the outside of highways and roads with a separate carriageway, when the radius of the curve is equal to or less than 400 meters;
- on other roads on the outside, when the radius of the curve is equal to or less than 250 meters;
- on the outer side of all bends at intersections with traffic organization at different levels;
- dangerous sections of roads in mountainous areas.





OUR PROJECTS



R-33, Odessa region



M-19, Rivne region



R-55, Odessa region



R-69, Chernihiv region



«PASS+CO UA» LLC
Kyiv, , Bolsunovska str. 8

+38 044 227-23-27
info@passco.com.ua

PASS+CO®
«PASS+CO UA» LLC



OUR PROJECTS



H-25, Rivne region



H-31, Dnipro region»



Str. Fuksa, Kryvyi Rig



M-19, Ternopol region»



«PASS+CO UA» LLC
Kyiv, , Bolsunovska str. 8

+38 044 227-23-27
info@passco.com.ua

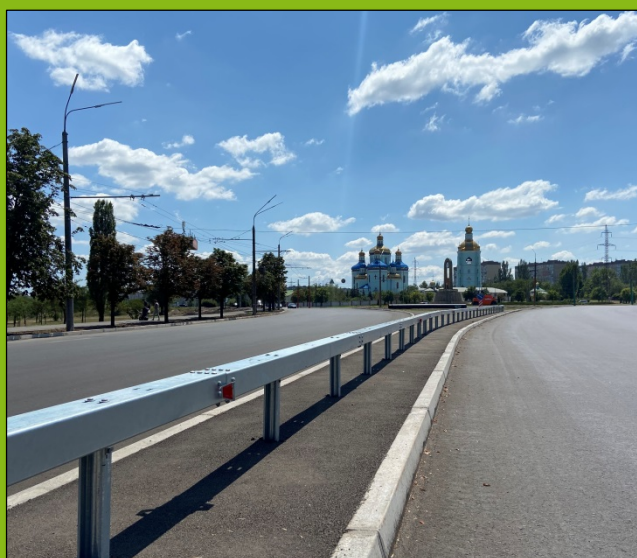
PASS+CO®
«PASS+CO UA» LLC



OUR PROJECTS



Kryvy Rih city



T-14-25 Mykolaiv – Bybrka



H-25, Rivne region



Bogatyrska str, Kyiv



«PASS+CO UA» LLC
Kyiv, , Bolsunovska str. 8

+38 044 227-23-27
info@passco.com.ua

PASS+CO®
«PASS+CO UA» LLC



OUR PROJECTS



R6, Moldova



R3, Moldova



H-31, Poltava region



«PASS+CO UA» LLC
Kyiv, , Bolsunovska str. 8

+38 044 227-23-27
info@passco.com.ua

PASS+CO®
«PASS+CO UA» LLC



OUR PROJECTS



M-06, Rivne region



M-06, Zhytomyr region



M-21, Vinnitsa region



M-12, Vinnitsa region



«PASS+CO UA» LLC
Kyiv, , Bolsunovska str. 8

+38 044 227-23-27
info@passco.com.ua

PASS+CO®
«PASS+CO UA» LLC