

ASSESSMENT

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2018-11-05 Rev.date 2018-11-19

Reference 8P07519 rev1

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Hypro A.S Birkelundsvegen 66 NO-1481 HAGAN Norge

Review of bull bar according to TSFS 2016:22

(2 appendices)

Note rev 1

This assessment has been revised 2018-11-19 with addition of product information.

Summary

According to our review of bull bar on motor vehicles with weight over 3.5 tons do not diverge from the requirements In Swedish Transport Agency's regulation TSFS 2016:22 Appendix 1, Section 49 - Projection of parts on external surface of vehicle together with supplements of TSFS 2017:10, TSFS 2017:61, TSFS 2017:78, TSFS 2018:41, TSFS 2018:44 and with reference to directive 92/114/EEC and ECE Regulation No. 61.

Consideration has also been taken with aspects of EC Regulation No.661/2009.

1 Assignment

Review of bull bar to motor vehicle class N_2 and N_3 (motor vehicle for goods over 3.5 ton) according to TSFS 2016:22 Appendix 1, Section 49 - Projection of parts on external surface of

Client: Hypro A.S, Hagan, Norway.

Product

The bull bar is meant for mounting on motor vehicle with weight over 3.5 tons, according to Table 2 below.

Table 2

Model	Category	Drawing	Vehicle	A 1.
Hypro 1035	HB 010	3-75746	Scania R-S next gen. 2017-	Appendix
Hypro 1036	HB 010		Volvo FM-FH-FH4	1
			VOIVOTIVI-TH-FH4	2

Material:

Ø 58 mm aluminium tubes, aluminium grid and fastening made of steel

Manufacturer:

Hypro A.S, Hagan, Norway

RISE Research Institutes of Sweden AB



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Signed by: Magnus Andersson Reason: I have reviewed this document Date & Time: 2018-11-20 17:42:16 +01:00

3 Method

Review of the geometry and radius of the product according to TSFS 2016:22 section 49; which refers to directive 92/114/EEC and ECE Regulation 61, see below.

Consideration has also been taken with aspects of EC Regulation No.661/2009, Chapter II, article 4 paragraph 3 and article 5, paragraphs 1 and 2f.

Method	Valid for product	
Directive 92/114/EC, section 3 – General requirements ECE Regulation 61, section 5 – General specifications	Hypro 1035 Hypro 1036	
Directive 92/114/EC, section 4.5 – Protective devices (bumpers) ECE Regulation 61, section 6.5 – Protective devices (bumpers)	Hypro 1035 Hypro 1036	

4 Assessment

According to our review the above mentioned types of bull bar for mounting on motor vehicles with weight over 3.5 tons do not diverge from the requirements in TSFS 2016:22 Appendix 1, Section 49 – Projection of parts on external surface of cab.

This assessment shall be attached to the client's confirmation that will follow each delivery of the product.

RISE Research Institutes of Sweden AB Safety - Mechanics Research

Performed by

Examined by

Reason: I am the author of this document of the declaration of the dec

Nina Talbrant

Magnus Holum

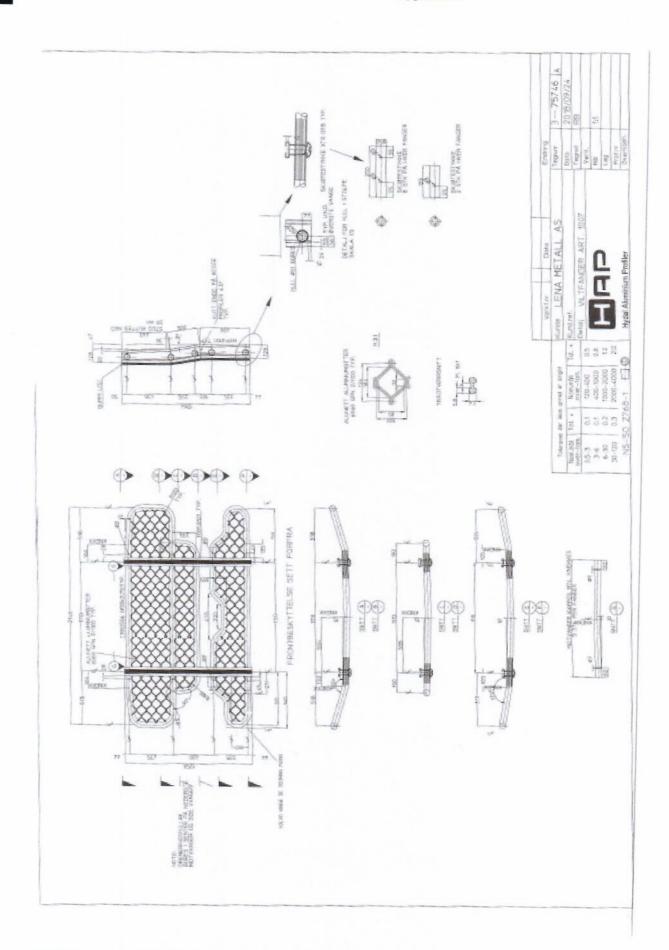
Magnus Andersson

Appendices

Appendix 1 - Drawing 3-75743 dated 2018-09-24

Appendix 2 - Drawing 3-75747 dated 2018-09-24

Appendix 1



Appendix 2

