



# ASSESSMENT

Contact person  
Ann-Sofie Engdahl  
SP Structural and Solid Mechanics  
+46 10 516 52 55  
Ann-Sofie.Engdahl@sp.se

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Page  
1 (2)

Hypro A.S  
Industriveien 28  
NO-1481 Hagan  
Norge

## Review of front protections to motor vehicle over 3.5 ton according to directives 92/114/EEC, R61

(1 appendix)

In revision 1 dated 2012-02-28 vehicles Iveco Trakker and Iveco Stralis have been added.

In revision 2 dated 2014-05-26 a vehicle name has been changed from DAF 85-95-105 to DAF LF-CF-XF.

In revision 3 dated 2014-07-03 new types of front protection have been added.

### Summary

According to our review the Hypro front protections attachment for mounting on motor vehicles with a weight over 3.5 tons do not diverge from the requirements in directives 92/114/EEC and R61.

### 1 Assignment

Review of front protection for attachment to motor vehicles category N<sub>3</sub> (truck over 3.5 ton) according to directives 92/114/EEC and R61.

Client: Hypro A.S, Hagen, Norge

### 2 Product

The front protections marked Hypro for mounting on motor vehicle with a weight over 3.5 tons. The front protections are categorised in bullbars HB 010 and in light bars HB 030. The products are manufactured in aluminium tubes.

The front protection can be found in drawings F0100-001, JRL5902, 3-4969-A, 3-72011, 0-74849, 0-74851 and 836617. The drawings are attached in appendix.

The bullbars fit to the following vehicles:

Scania R-T-P- 4 serie  
Volvo FH and FM  
DAF LF-CF-XF.  
MAN TGA- TGS- TGX  
MB Actros

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#### SP Technical Research Institute of Sweden

<i>Postal address</i>	<i>Office location</i>	<i>Phone / Fax / E-mail</i>
SP Box 857 SE-501 15 BORÅS Sweden	Västeråsen Brinellgatan 4 SE-504 62 BORÅS	+46 10 516 50 00 +46 33 13 55 02 info@sp.se

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Renault Magnum – Premium  
Iveco Trakker and Iveco Stralis

The light bar is universal and fit to all vehicle.

### 3 Method

Review of the geometry and radius of the products according to directives 92/114/EEC and R61.

### 4 Assessment

According to our review the above mentioned types of front protections for mounting on motor vehicles with a weight over 3.5 tons do not divagate from the requirements in directives 92/114/EEC and R61.

This statement shall be attached to the company's confirmation that is enclosed with each product delivery.


**SP Technical Research Institute of Sweden**  
**SP Structural and Solid Mechanics - Safety and Function**

Performed by



Ann-Sofie Engdahl

Examined by



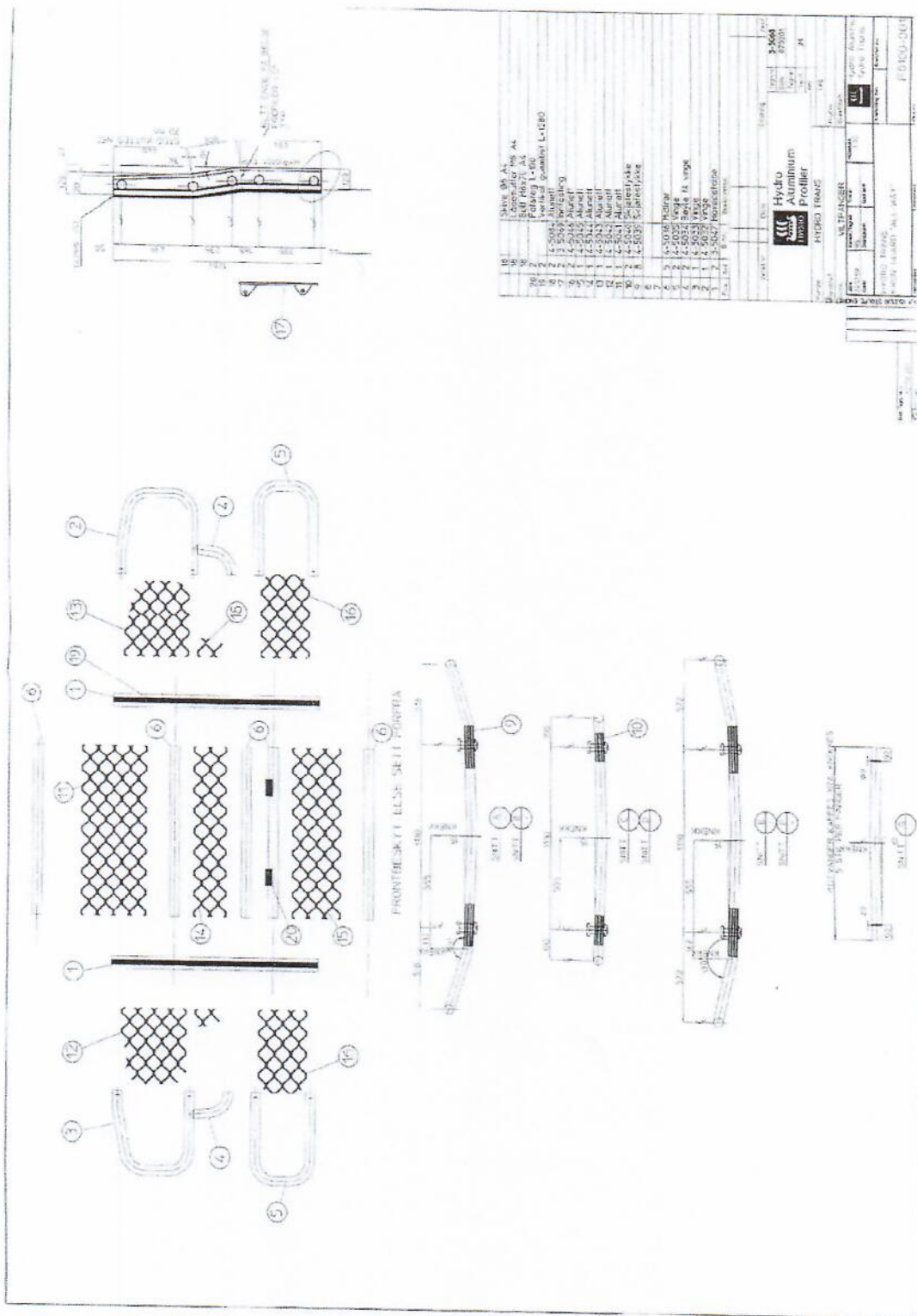
Torbjörn Granberg

### Appendices

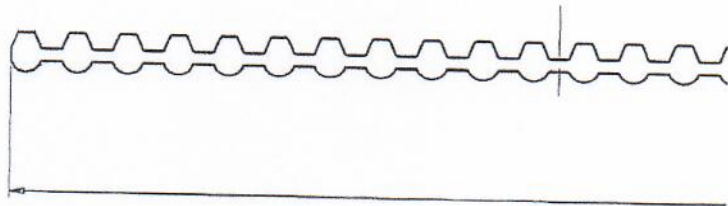
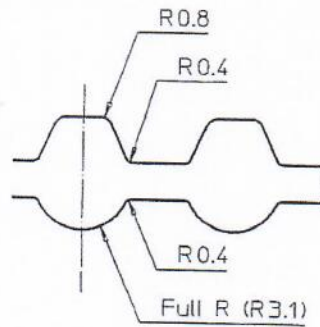
#### Appendix 1

F0100-001  
JRL5902  
3-4969-A  
3-72011  
0-74849  
0-74851  
836617  
0-73645

Appendix 1



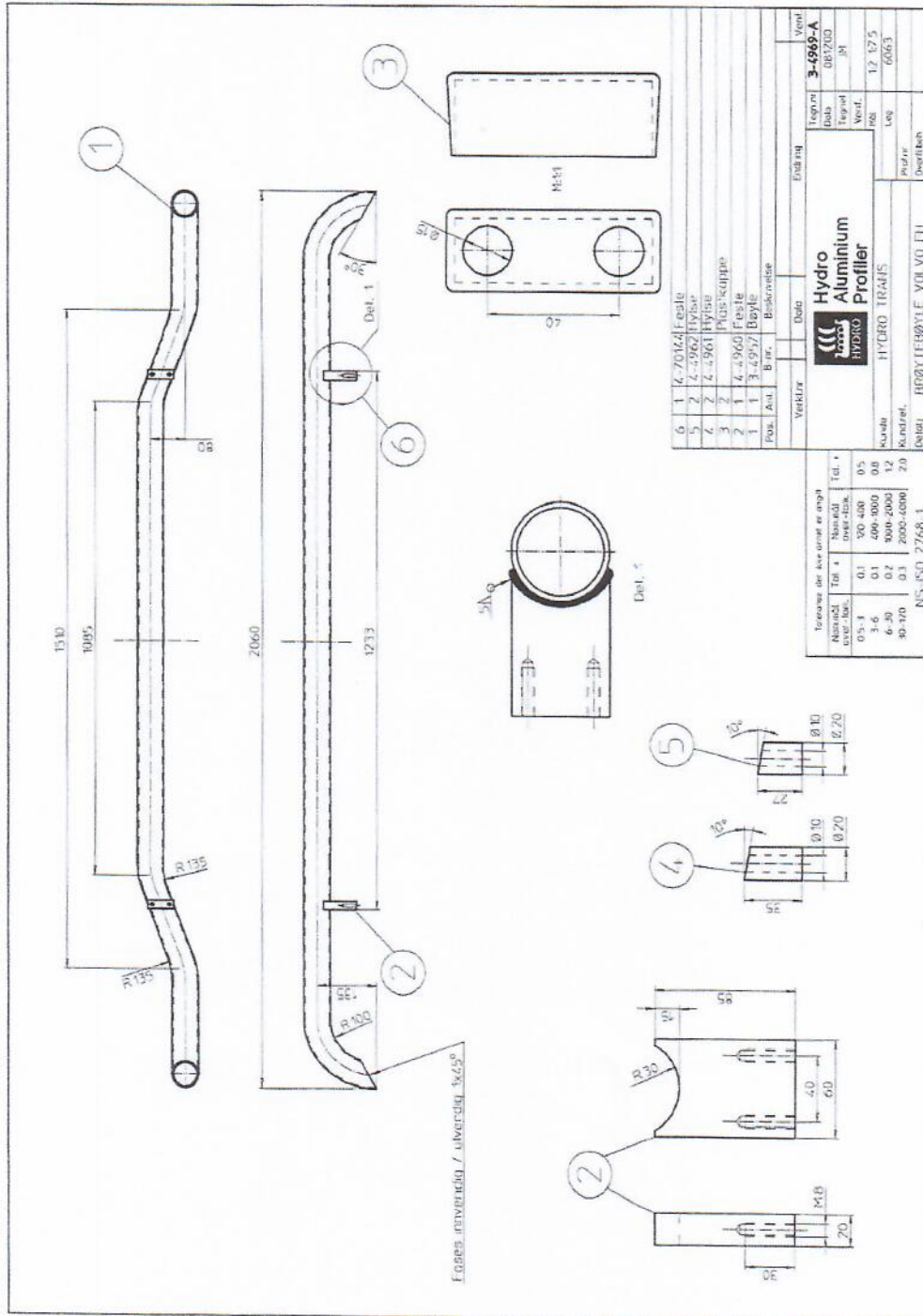
Appendix 1



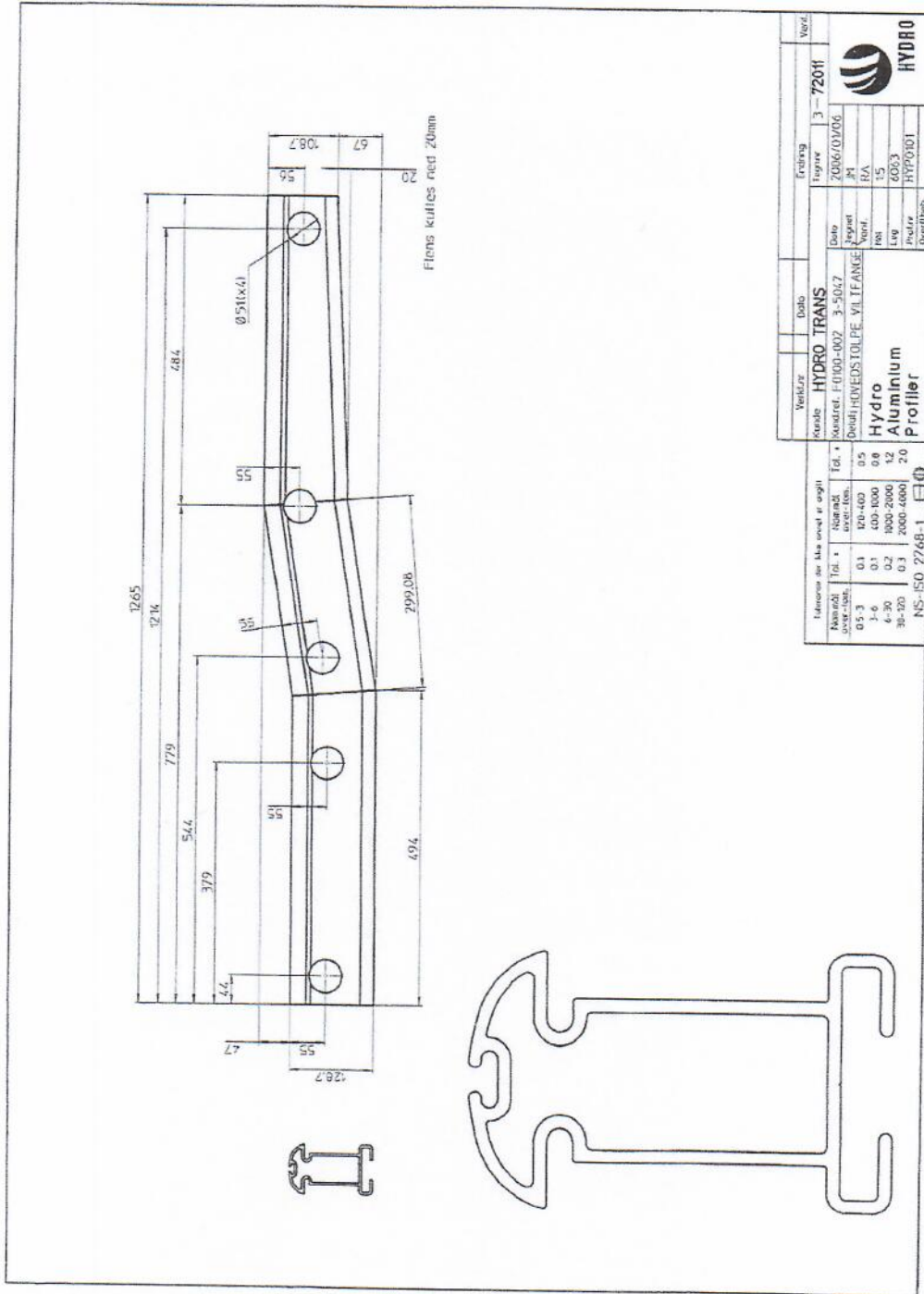
Gen. vegg		Gen. hjørne rad	
 <b>Hydro Aluminium Profiler</b>		14.01.08	Data
Målest. 1:1	Sign.	Verif.	Date 29.08.85
O.dia 212	Tilb. nr.		20.01.99
Faktor 88	Profil nr.		09.03.94
Klasse 4	JRL 5902		Rev
			III ID-tille fjernet
			II Overflate var N
			I NY tegning
			Revisjon
			Nr.



Appendix 1



Appendix 1



Verklär		Datum		Erföring		Vord.	
Karakt.	HYDRO TRANS	Dato	2006/03/06	Hygrer	3 - 720ff		
Material	FU000-002 3-5047	Projekt	DA				
Beställ	Dech/HÖVEDSTOLPE_VILTEANCE	Mod	DA				
	Hydro	Typ	15				
	Aluminium	Lag	4003				
	Profiler	Trälar	HYPO001				
		Övertillst.					

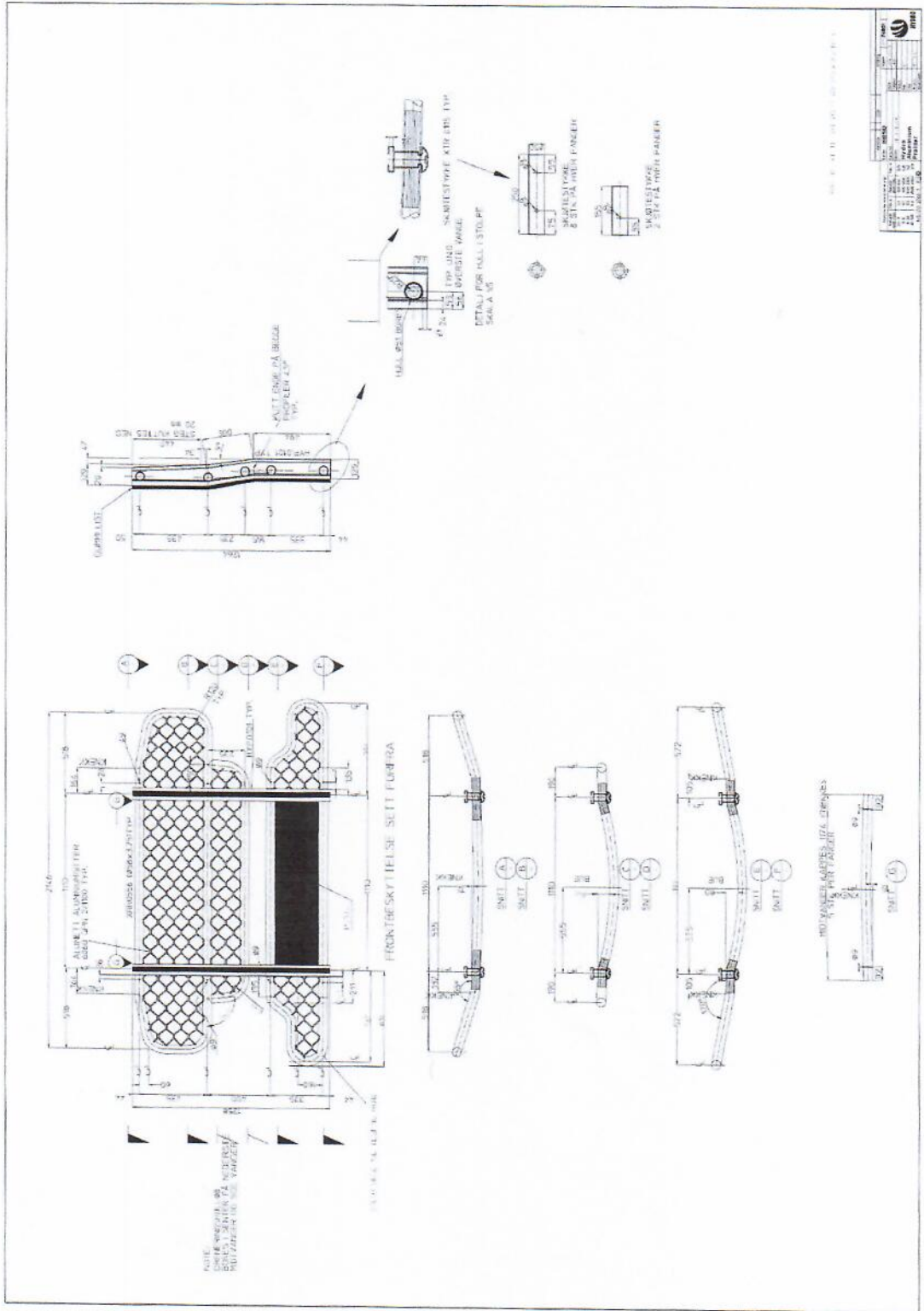
Information de Ma sonet et ogit		Tol.	
Material	Norm	0.1	0.5
05-3	170-400	0.1	0.8
3-6	400-1000	0.2	1.2
4-30	1000-2000	0.3	2.0
30-120	2000-4000		

NS-ISO 2768-1





Appendix 1





Appendix 1

