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Certificate – component strength of KINNEGRIP steel flapped pillar K20		
Order placement		
am 02.10.2017	by: KINNEGRIP AB	
	Lindhagsgatan 6 S – 531 02 Lidköping Phone: +46 510 890 35 E-Mail: info@kinnegrip.se	
1. Legal provisions		
§ 22 StVO	(German Road Traffic Regulations)	„Load has to be secured“
§ 23 StVO	(German Road Traffic Regulations)	„Duties of the driver“
§ 30 StVZO	(German Road Traffic Licensing Regulations)	„Vehicle design“
§ 31 StVZO	(German Road Traffic Licensing Regulations)	„Operating responsibility“
§ 412 HGB	(German Transport Reform Law)	
2. Guidelines and standards:		
VDI 2700	Securing of loads on road vehicles	
VDI 2700 Part 3.2	Vehicles equipments and securing aids for loads	
DIN-EN 12195-1	Calculation of tie down and restraining forces	
DIN EN 12642	Body structure on commercial vehicles – minimum requirements	

3. KINNEGRIP K20 flapped pillar

Type:	KINNEGRIP K20 steel flapped pillar 212201S
Dimensions:	L/W/D: 400 - 1.200 / 160 / 35 mm
Bracket:	KINNEGRIP K20 welded bracket for steel pillar 012155 a=4
Dimensions:	L/W/D/T: 142 / 100 / 34 / 5 mm

4. Tests

Test plastic deformation:	Test elastic deformation:
Tensile test at a high of 1.190 mm	Tensile test at a high of 1.190 mm
F = 720 daN plastic deformation	F = 650 daN elastic deformation
Test Z110317001 from 17.03.2011	Test Z110317002 from 17.03.2011

5. Range of application

Flapped pillar for dropside equipped commercial vehicles with a dropside high up to 1.200 mm

No.:	Number of pillars: 650 daN testforce	Number of pillar fields: max. 3.300 mm	Payload of upper structure: DIN EN 12642 Code XL – A
1.	1x pillar symmetric	2x pillar fields	10.400 kg
2.	2x pillars symmetric	3x pillar fields	15.600 kg
3.	3x pillars symmetric	4x pillar fields	20.800 kg
4.	4x pillars symmetric	5x pillar fields	26.000 kg
5.	5x pillars symmetric	6x pillar fields	31.200 kg

6. Notes and conditions

This certificate from 17/03/2011 only applies to the presented and certified design and construction. It expires after the coming into force of new legal regulations and/or after new findings on load securing as well as changes of components of the DEKRA certified pillar configurations from 17/03/2011. Changes or new developments of the technical components must be recertified by DEKRA Automobil GmbH. Previously created certificates hereby lose their validity. The certified load securing systems, like e.g. the pillars, must undergo, analogous to the VDI Guideline 2700, once a year a technical inspection, for example at the moment of the statutory vehicle inspection by the DEKRA Automobil GmbH, or an examination realized by the manufacturer or other persons authorized by the latter. Repair work after damage must be executed exclusively by the manufacturer or by enterprises which are authorized by him. Loading activities must be carried out respecting obligatory the load distribution scheme and the accident prevention regulations of BGV D 29 (Employer's Liability Insurance Association Code). This certificate is identical regarding the content of the original certificate AG70 / 11068 / 2011-25776 from 17/03/2011, made by Mr. M. Stenau.

DEKRA Expert
by proxy Dipl.-Ing. Uwe Semsch

Bielefeld, 22/05/2018

Place, date

Certificate No. 313/32100/703550/1822341120-2

Stamp and signature

Manufacturer

Place, date

Stamp and signature of responsible person

Kinnegrip.

The signature of responsible person of the company and the company stamp confirm, that the design and strengthness of the delivered pillar are in accordance with tested pillar. This certificate consists of 2 pages and become only valid with the complete signature and stamp of the owner.