Template for comments and secretariat observations

Date: 2015-10-19 Document: EN 1493:2010 Project: Revision

No.	MB/ NC ¹	Clause/ Subclause (e.g. 3.1)	Paragraph/ Figure/ Table/ (e.g. Table 1)	Type of comment ²	Comments	Proposed change	Observations of the secretariat
1)	DE				It should be clarified that the synchronization systems will have an effect on the traction systems in case of fail.	This can be re-discussed	
2)	DE				Therefore the EN 1493 should clarify if synchronization systems must work as calculated for traction systems.	To be discussed to introduce more details regarding synchronization ropes (and more general, synchronization devices) (see also 5.7.5.6) This can be re-discussed	
						This can be re-discussed	
3)	IT			te	Others issues that need to be treated: a) Potential conflicts between EN 1493 and Roadworthiness Directive (2014/45/EU), related with the presence of persons on the lift during roadworthiness inspection procedure and the possible need to have the vehicle engine running (to be able to steer the vehicle, e.g.: trucks)		
1)	ED	Introduction	2 nd clause	ao/to	b) Issues related to the lifting of electric vehicles	Complete the Appen 7A which makes the relation	
4)	FR	miroduction	z clause	ge/te	The project of standard says: "In addition, machinery should comply as appropriate with EN ISO 12100 for hazards which are not covered by this standard."	Complete the Annex ZA which makes the relation between the European standard and the requirements of the European Directive 2006/42/EC.	
					If the standard anticipates that certain hazards are not covered, then annex ZA has to list them clearly.		
5)	FR	Introduction	5 th clause	te	The project of standard says: « While elaborating this standard it was assumed that only authorized persons operate the vehicle lifts and that the working area is sufficiently lit. » The standard does not have to limit itself to a requirement but has to supply a level of lighting	Replace the sentence: « While elaborating this standard it was assumed that only authorized persons operate the vehicle lifts and that the working area is sufficiently lit. » by	
					defined in a new paragraph.	« While elaborating this standard it was assumed	

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Template for comments and secretariat observations Date: 2015-10-19 Document: EN 1493:2010 Project: Revision MB/ No. Clause/ Paragraph/ Type of Comments **Proposed change** Observations of the secretariat NC¹ Subclause Figure/ comment² Table/ (e.g. 3.1) (e.g. Table 1) that only authorized persons operate the vehicle In France for example, the minimum of lighting for lifts » the lighting of working premises has to be of a minimum of 120 lux (article n°4223-4 of the And introduce the following sentence into new French labour code) clause 5.21.6: « The minimum of lighting for the working area has to be of a minimum of 500 lux according to EN 1837+A1:2009 » 6) FR Introduction (new ge/te The standard EN 1493:1998 says in its - Reintroduce in the clause of Introduction the clause) introduction: sentence: « Furthermore it was assumed that no persons « Furthermore it was assumed that no persons are are permitted to stand under the vehicle during permitted to stand under the vehicle during lifting lifting and lowering» and lowering» but in FprEN 1493 this sentence disappeared. The users and the manufacturers are not applicants to work under the load in movement (and are not applicants of a wireless remote control). FR The period of application of the Publication is 7) 1 scope 4th clause te Replace the sentence: inconsistent and not valid « This document is not applicable to vehicle lifts which are manufactured 1/2 year after the date of its publication as EN. » by « This document is applicable to vehicle lifts which are manufactured 1/2 year after the date of its publication as EN. » 2 New Standards: 8) CH Standards has to be renewed: qe EN 982:1996+A1:2008, **EN ISO 4413 EN ISO 4414** EN 983:1996+A1:2008. EN ISO 12100:2010

EN ISO 12100:2010

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EN ISO 12100-1:2003.

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					EN ISO 12100-2:2003,				
9)	СН	2		ge	RfU CNB/M/08.016		They have to	b be integrated in the new standard	
					RfU CNB/M/08.018				
10)	СН	2		ge	RfU CNB/N/08.xxx			obably other RfU which could be the new standard	
11)	FR	2	All clauses	ed	The normative references shall be re	vised.		account the revised standards and s, the revised list of normative re:	
							General rule	3:2010, Hydraulic fluid power - s and safety requirements for systems nponents (ISO 4413:2010)	
							General rule	4:2010, Pneumatic fluid power - s and safety requirements for systems nponents (ISO 4414:2010)	
								2009, Safety of machinery — uipment of machines — Part 1: uirements	
								2:2008, Safety of machinery — uipment of machines — Part 32: ts for	
							hoisting mad	chines (IEC 60204-32:2008)	
							provided by	2:2013, Degrees of protection enclosures (IP Code) 1989 + A1:1999 + A2:2013	
							control gear switching ele	-1:2009, Low-voltage switchgear and - Part 5-1: Control circuit devices and ements - Electromechanical control es (IEC 60947-5-1:2003 + A1:2009	

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							and risk reducti EN ISO 13849- Safety-related p General princip (ISO 13849-1:2 EN ISO 13849- Safety-related p Validation (ISO EN ISO 13850: Emergency sto 13850:2006) ISO 4308-1:200	Alles for design - Risk assessment ion (ISO 12100:2010); 1/A1:2013 Safety of machinery - barts of control systems - Part 1: Alles for design - Amendment 1 2006/DAM 1:2013); 2:2012, Safety of machinery - barts of control systems - Part 2: 13849-2:2012) 2008, Safety of machinery — p — Principles for design (ISO 203, Cranes and lifting appliances — re ropes — Part 1: General	
12)	FR	3	(New clause)	te	The definition of the hold-to-run contr disappeared from the project of stand have to reintroduce the former definit written in prEN 1493.	lard. We	 « 3.17 Hold-to-run concentration of manual control device operation of manual control manual control the stop position 	e which initiates and maintains achine elements only as long as the I (actuator) is actuated and the (actuator) automatically returns to n when released »	
13)	FR	4	Table 1	te	If operator could be allowed to stand vehicle, the risk assessment should b reconsidered.		taking into acc remote control.	of hazards" shall be revised for count hazards due to use of the The specific risks about the use of trol are not identified in this table.	
14)	FR	4	Table 1	te	The hazard to the lightning disappear vehicle lifts can be used outside and		- Add the hazar with a part 2.5 s	rd of the lightning in the TABLE 1 such as:	

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					requirement "Lightning" of the Directi 42/EC is a part of general essential re (1.5.16) We have to add this hazard in the tab explain it in the body of the standard.	equirements	- Introduce a r « 5.21.5 All the elemen	of lightning 5.21.5 » new clause 5.21.5 such as: hts of the electric equipment have to uirements for the lightning of the 50204-32»	
15)	FR	4	Table 1	te	The hazard 12 of the Table 1 refers to clauses 5.4.1 and 5.4.3 which do not requirement of lighting		Delete the haz	zard 12.	
16)	FR	4	Table 1	te	The hazard 18 of the Table 1 refers to 5.4.3 which does not clarify requirementighting		the new clause for the working	3 has to refer to the requirement of e 5.21.6 « The minimum of lighting g area has to be of a minimum of ding to EN 1837+A1:2009 »	
17)	DE	5.4	Sentence 3	ed	For the wireless remote control it's ne that a person pushing an additional re switch at the lift.		the additiona <u>compulsory</u> . If remote con standing area view to the lo cable, infrare release switc NB: the need <u>related only t</u> <u>complete view</u> (see also 5.4. <u>Rewrite the p</u> integrating th	note control (wireless or wired) I release control <u>is not always</u> trol operate within defined a which gives the operator a direct bad to be lifted/lowered (e.g. short ad control system) the additional h is not compulsory of additional release control <u>is</u> <u>o the impossibility to have a</u> w to the lifted load 2) paragraph 5.4.1 and 5.4.2 memselves in only one paragraph e relation with the visibility	

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18)	FR	5.4.1	3th clause	te	The clause 5.4.1 introduces the use of controls (wireless or wired) but does not the domain of application.		following vehic forbid it for sim Write in 5.4.1: « The use of re - is forbidden fo	f remote controls to the lifts of the les: trams, vehicles on rails and to ple vehicle lifting. emote controls for vehicle lifts: or the simple vehicle lifts such as of vehicle L, M1 and N1, »	
19)	FR	5.4.1	4th clause	te	The length of the cable shall be define	ed into 5.4.1	« The length of	entence into 5.4.1: f the cable does not have to allow f the operator under the load in	
20)	IT	5.4.1 and 5.4.2		ge	Rewrite the paragraphs 5.4.1 and 5.4 integrating them into a single paragra the relationship with the visibility requ	ph to focus			
21)	NL	5.4.1 5.4.2 5.22		ge/te	 Control positions / Remote control Current situation: EN1493:2010 has the following in 5.4 5.4.2: a) Control devices shall be des arranged so that they are wirreach of a standing operate that the operator is not jeol the load or the motion of the of the lift. b) Remote control (wireless or only be used if there exists a additional release switch a lift which has to be pushed with the section of the lift. 	.1 and igned and thin easy pr , and so pardized by lift or parts wired) shall an the vehicle	examples of sc which the requise be fulfilled". The these are gathed At least the star could be change moved to Anne innovative solution a probably bett Examples of su - A load ser remote co - Another su	aragraphs 5.4.1 and 5.4.2 contain plutions "describing methods by irements of the normative text can e structure of the standard is that ered in annex B. tus of the additional release switch ged into 'example of a solution' and ex B. That would open the way for titions that solve the safety issues in the way. uch solutions are: nsor on the lift that switches off the introl when the load is on the lift. olution is a limited lifting height of nm, when using the remote control.	

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					 the remote control. The switch shall be located person pushing it has the load to be lifted/lo c) The additional release necessary if the remote will only operate within standing area which a direct view to the lease and the load (e.g. show control system). d) The control position vehicle lift shall be deen arranged, so that the load carry the load whilst in motis space under the load and the load. This ap operation of both multilifting devices. e) If the vehicle lift <i>is interestion</i> so that the hazardouse completely viewed for position (the use of the cameras/monitors is a vehicle lifts for rail bout or more additional rease approving the commany movements (on the signal position device). 	I so that the a direct view to wered. e switch is not te control system a defined gives the operator bad to be ort cable, infrared to operate the signed and operator can ng device and on, as well as the I carrying device plies to the ple and single area cannot be om the operating pols like mirrors or cceptable), e.g. nd vehicles, one elease switch(es) nds for the lifting de of the lifting	With in-ground heavy duty vehicle lifts, it would be easier to position the adapters under the pick-up points of the vehicle this way. It has to be done lying on the floor to be able to watch the adapters and pick-up points and to move the adapters into the right position. <i>Without</i> the remote control, operators may tend to position the adapters 'in the ball park' and then raise the vehicle to see if the adapters are positioned well. ('foreseeable misuse')This can lead to dangerous situations. But	

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					 control position) are require Comments: a) This general requirement set to fixed control devices that mounted on the lift of in the the lift. Therefore the risk of jeopardized is present. An ir aspect here, seems that the has to be close to the lift/load the lift. The requirement courachieved by positioning the device away from the lift, or remote control. The latter lead operator a choice to operate a convenient (safe) position. b) A remote control offers sever advantages. One is mention under a). Another is that it s problem of visibility mention and e). The operator can wat the lift and vehicle while operator does not require an "addition switch at the vehicle lift" whi potentially a more dangerou In general, the additional relis not doing what it's meant safety. Actually it is blocking 	eems to refer are either vicinity of being mportant operator id to operate ild be control by using a aves the e the lift from eral ned above olves the ed under d) alk around erating it (in ontrol), and ew the whole ing. This nal release ich is us position. lease switch for: offering		

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					solutions like the remote control, because (as far as I know) hardly any manufacturer is using it and thus not (legally allowed to) using the remote control. Also, hardly any user will buy a lift that requires two people to operate it.		
					c) Limiting the area in which the remote control can be used, takes away the advantage of the better visibility with the remote control.		
					 d) This is exactly what the remote control offers. But, as stated under b), few manufacturers are willing to offer it conform EN1493, even fewer customers want to buy such a lift. 		
					 e) It seems that it is the <i>type of vehicles</i> that are lifted (and therefore the lift type) which defines if the "hazardous area cannot be completely viewed from the operating position", rather than what "the vehicle lift is intended to be used" for. Therefore the whole matter of control devices could be better addressed by vehicle and lift type. This is actually already done in case of rail bound vehicles. 		
				C	General:		
				v	Regarding the risk of the use of remote controls with lifting equipment, a comparison with overhead cranes and e.g. lifting equipment on		

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					 vehicles might be useful. The remote control offers a great freedom to choose the best position for operating and watch the load and the area around it. The fact that it is possible to stand under the load while operating, does not prevent the use of remote controls. In training and warning, operators are told never to stand under the load. In vehicle lift land we have paragraph 5.22, where the additional release switch also does not offer more safety, because the reduced lowering speed and the additional requirement regarding unintentional lowering prevention is already taking care of that. In the US, there are no additional requirements regarding the use of remote controls, and the use of them with in-ground and other lifts is widespread. We never heard of (fatal) accidents related to the use of remote controls without additional release buttons on vehicle lifts. 		
22)	DE	5.4.2	Sentence 2	ed		When the complete view of the lifted vehicle is not guaranteed, <u>also in the event of non-</u> <u>remote controls</u> , devices should be present to stand in for it. (ex.: cameras) or an additional release switch (es) approving the commands for the lifting movements. Rewrite the paragraph 5.4.1 and 5.4.2 integrating themselves in only one paragraph to focalize the relation with the visibility	
23)	FR	5.4.2	Note	te	A note of design cannot speak about negotiation (?) between the manufacturer and the user	Delete the note.	
24)	FR	5.4.1		te	The project of standard anticipates that the additional release switch is not necessary if the	Delete this argument which allows the use of a remote control without release switch or define	

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		5.4.2			device of remote control works only ir defined position. So it does not appea how is realized the selection of the cc (essential requirement 1.2.5 of the Di 2006/ 42/EC)	ar clearly ontrol modes		ack of this switch the selection of the orking is realized.	
25)	FR	5.4.2	Last clause	te	Clarify why « the space in front » in th « In addition if the vehicle lift is mobile operator shall be able to observe the front of the vehicle lift. »	e the			
26)	IT	5.4.1 and 5.4.2		ge	Rewrite the paragraphs 5.4.1 and 5.4 integrating them into a single paragra the relationship with the visibility requ	ph to focus			
27)	NL	5.4.1 5.4.2 5.22		ge/te	 Control positions / Remote control Current situation: EN 1493:2010 has the following in 5.4.2: a) Control devices shall be design arranged so that they are within of a standing operator, and so operator is not jeopardized by the motion of the lift or parts of the motion of the lift or parts of the motion of the lift or parts of the second only be used if there exists an a release switch at the vehicle lift to be pushed when using the recontrol. This additional switch s located so that the person push direct view to the load to be lift c) The additional release switch 	4.1 and ed and e easy reach o that the y the load or the lift. ed) shall indditional ft which has mote hall be ing it has a fted/lowered.	examples of which the re be fulfilled". these are ga At least the could be cha moved to Ar innovative s a probably b Examples o - A le the the could be cha moved to Ar innovative s a probably b Examples o - A le the the	paragraphs 5.4.1 and 5.4.2 contain f solutions "describing methods by equirements of the normative text can The structure of the standard is that athered in annex B. status of the additional release switch anged into 'example of a solution' and nnex B. That would open the way for olutions that solve the safety issues in better way. f such solutions are: oad sensor on the lift that switches off e remote control when the load is on e lift. other solution is a limited lifting height e.g. 300 mm, when using the remote ntrol. With in-ground heavy duty nicle lifts, it would be easier to position	

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					 necessary if the remote control system will only operate within a defined standing area which gives the operator a direct view to the load to be lifted/lowered (e.g. short cable, infrared control system). d) The control position to operate the vehicle lift shall be designed and arranged, so that the operator can watch the load carrying device and the load whilst in motion, as well as the space under the load carrying devices. e) If the vehicle lift <i>is intended to be used</i> so that the hazardous area cannot be completely viewed from the operating position (the use of tools like mirrors or cameras/monitors is acceptable), e.g. vehicle lifts for rail bound vehicles, one or more additional release switch(es) approving the commands for the lifting movements (on the side of the lifting system positioned across from the control position) are required. a) This general requirement seems to refer to fixed control devices that are either mounted on the lift of in the vicinity of the 	But	the vehicle this way. It has to be done lying on the floor to be able to watch the adapters and pick-up points and to move the adapters into the right position. <i>Without</i> the remote control, operators may tend to position the adapters 'in the ball park' and then raise the vehicle to see if the adapters are positioned well. ('foreseeable misuse')This can lead to dangerous situations.	
					lift. Therefore the risk of being jeopardized is present. An important aspect here, seems			

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					 that the operator <i>has to be</i> close to the lift/load to operate the lift. The requirement could be achieved by positioning the control device away from the lift, or by using a remote control. The latter leaves the operator a choice to operate the lift from a convenient (safe) position. b) A remote control offers several advantages. 		
					b) A tendote control offers several advantages. One is mentioned above under a). Another is that it solves the problem of visibility mentioned under d) and e). The operator can walk around the lift and vehicle while operating it (in case of a wireless remote control), and thus has the possibility to view the whole area during lifting and lowering. This does not require an "additional release switch at the vehicle lift" which is potentially a more dangerous position. In general, the additional release switch is not doing what it's meant for: offering safety. Actually it is blocking safer solutions like the remote control, because (as far as I know) hardly any manufacturer is using it and thus not (legally allowed to) using the remote control. Also, hardly any user will buy a lift that requires two people to operate it.		
					c) Limiting the area in which the remote control can be used, takes away the advantage of the better visibility with the remote control.		

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					 d) This is exactly what the remote control offers. But, as stated under b), few manufacturers are willing to offer it conform EN1493, even fewer customers want to buy such a lift. 					
					 e) It seems that it is the <i>type of vehicles</i> that are lifted (and therefore the lift type) which defines if the "hazardous area cannot be completely viewed from the operating position", rather than what "the vehicle lift is intended to be used" for. Therefore the whole matter of control devices could be better addressed by vehicle and lift type. This is actually already done in case of rail bound vehicles. 					
					General: Regarding the risk of the use of remote controls with lifting equipment, a comparison with overhead cranes and e.g. lifting equipment on vehicles might be useful. The remote control offers a great freedom to choose the best position for operating and watch the load and the area around it. The fact that it is possible to stand under the load while operating, does not prevent the use of remote controls. In training and warning, operators are told never to stand under the load.	Regarding the risk of the use of remote controls with lifting equipment, a comparison with overhead cranes and e.g. lifting equipment on rehicles might be useful. The remote control offers a great freedom to choose the best position or operating and watch the load and the area around it. The fact that it is possible to stand under the load while operating, does not prevent he use of remote controls. In training and				
		Maraka shakiri (N			In vehicle lift land we have paragraph 5.22, where the additional release switch also does not offer more safety, because the reduced lowering speed and the additional requirement regarding unintentional lowering prevention is already					

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							inclination fr create proble less sturdy: f in order to av	meling) sed also to reduce the allowable om 1,7 % to 1%: this mainly to ems to Chinese products that are this proposal need to be checked woid creating problems also for anufacturer (inquiry with WG1	
30)	IT	5.7.1		Те	A correlation with the requirements for should be included in the revision of				
31)	DE	5.7.4.2	Sentence 4	ed	Clarify or use another word for "Track referring to track style road contact d in this paragraph there is also referer "vehicle track symmetry axis"	evice. Earlier	the vehicle a by the diment <u>Vehicle track</u> VEHICLE: it is coincident we alignment <u>Wheel support</u> LIFT: it is the related to the To summariz symmetry axis axis are coince Establish that assumed that lift platform. Actually, to a be better to ue "track" to ide drawing of th	and wheel base of Table 4 refer to nd the meaning is further cleared asions WT and WB. <u>a symmetry axis</u> : refers to the is the longitudinal symmetry axis ith geometrical axis in wheel <u>ort symmetry axis</u> : refers to the e longitudinal symmetry axis e platform of the lift te, the sentence The vehicle track is and the wheel supports symmetry cidental. At for calculation it has to be at the vehicle is centred with the avoid misunderstanding, it should use a different terms respect entify the platform of the lift. The ne front view of the vehicle could the Table with the dimensions WT	

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							The drawing o could be adde dimensions W centre line)	e tyre width centre line) of the front view of the vehicle of to the Table with the /T (referred to the tyre width an be re-discussed	
32)	DE	5.7.4.3	Paragraph a) and b)	te	 The determining in a) and b): On vehicle lifts with carrying rated load shall be distributed four corners of a rectangle we dimensions of 100 cm (width maximum load at the maxim the longest arm and the shore position which gives the word. This formulation in 5.7.4.3 generally I especially in asymmetric 2-post lifts the misunderstandings regarding design. Compared to the previous EN 1493 the load rectangle is set in the drive of by a measure, but by its worst position swivel arm. The fact possible unilateral centre of load is not practical. The solution of the manufacturer with tools to limit the swivel range or for the lift are poorly implemented in practical for the length and the width creates unic conditions for designing and testim Even the RFU_CNB/M/08.016 does near the point: 	ed on the with the h) with the num length of ort arm in the rst condition. eads but o and testing. he size of lirection not on of the gravity of additional he location of ed load of ctice. ectangle in ique	REVISION OF	THE STANDARD /EHICLE	

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					Is it really correct to reduce the safety factor which raises the permissible strength as a consequence? This is contrary to 5.7.3 Load combinations (SF 1,5 = normal operation)! Proposal: Reduction of capacity in this position (see draft of RFU from 06/06/2012) by labelling which is also understandable for the user. Does it make sense to calculate with a reduced safety factor and to prohibit this position of the arms at the same time? (Contradiction)! And the lift could not be used for certain vehicles, pick up points wheelbase direction: SMARTfortwo => 850 mm Toyota iQ => 1012 mm		
33)	IT	5.7.4.3 "Load distribution in lift with arms"		te	The problem is in last sentence of 5.7.4.3 a) and b) that exclude the application of the concept of "Normative vehicle" for lifts with carrying arms. It was defined an RFU as temporary solution, awaiting the definitive one to be adopted in next revision of the standard. The aim is to keep even for this category of lifts the "Normative vehicle" (load rectangle) as reference for design and testing. Furthermore, the dimensions of "Normative vehicle" probably need to be reconsidered to align them to the needs of vehicles on the road today.		
34)	NL	5.7.4.3 b		ed		Rectangular must be rectangle	
35)	DE	5.7.4.4	Sentence 1	ed	The sentence Where the prescriptions of 5.7.4.2 and 5.7.4.3 cannot be applied should be better clarified pointing out that it refers to the case that the lift is dedicated to some special kind	This maybe can be re-discussed to evaluate text changes to improve the meaning and avoid misunderstanding	

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					of vehicles for which the prescription cannot be applied or better for which the normative vehicle is not appropriate.		
					(See also remark on 5.7.4.1)		
36)	IT	5.7.4.4		te	The sentence " <i>Where the prescriptions of 5.7.4.2</i> and 5.7.4.3 cannot be applied" should be discussed to evaluate text changes to improve the meaning and avoid misunderstanding.		
37)	DE	5.7.5.2	Sentence 1	te	1 When you use principal cables the EN1493 is clarifying very well technical characteristics but for synchronization cables don't say anything:	The paragraph is affected by the various changes introduced in previous releases of the standard.	
					Number of threads, minimum resistance (we think EN1493 should clarify this point with technical	493 should clarify this point with technical provided	
					characteristics for any cable).	 with reference to ISO4308-1:2003, where the distinction between main ropes and synchronization is considered 	
						2) Annex C (normative)	
						Probably it should be better to rewrite the whole paragraph removing the prescription that can cause limitation in the choice of ropes with better performances (114 wire, at least 1 570 N/mm2 but not exceed 1 960 N/mm2) and making reference only to the standard ISO4308-1:2003	
						Since 2 possibilities are provided Annex C has to be informative and not normative.	
						This can be re-discussed	
38)	DE	5.7.5.6		te	How do you define the worst loading situation?	The issue cannot be handled differently than in general line as it is in the standard now	
					How do you define withstand?	It depends on type of lift and its safety	

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							even in preser the movement bigger than th should withsta corresponding	scissor lifts with torsion bar: nce of a micro switch that stops when the torsion angle become e allowed value, the torsion bar and to a torsion angle g with action of others safety nooks or latches)	
								-discussed to give more info, camples, in annex "informative", nderstanding.	
39)	IT	5.7.5.6		te	"to withstand the worst loading situat be better defined maybe with exampl "Information Annex", to avoid any misunderstanding.				
40)	DE	5.8		te	Please define driving machinery.			ed to find the best definition and aragraph 3 "terms and definition"	
41)	NL	5.9.2 5.9.3 5.9.5		te	When the locking devices of carrying to be designed to resist a horizontal f 1500 N (5.9.5), that acts at the load of points, the forces at these points, me 5.9.2 and 5.9.3 should probably have value of 1500 N instead of 1000N.	orce of min. arrying ntioned in	Change the val and 5.9.3	ues of 1000 N into 1500 N in 5.9.2	
42)	NL	5.9.2 5.9.3 5.9.5		te	When the locking devices of carrying to be designed to resist a horizontal f 1500 N (5.9.5), that acts at the load of points, the forces at these points, me 5.9.2 and 5.9.3 should probably have value of 1500 N instead of 1000N.	orce of min. arrying ntioned in	Change the val and 5.9.3	ues of 1000 N into 1500 N in 5.9.2	
43)	NL	5.9.2 5.9.3		te	When the locking devices of carrying to be designed to resist a horizontal f 1500 N (5.9.5), that acts at the load of	orce of min.	Change the val and 5.9.3	ues of 1000 N into 1500 N in 5.9.2	

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		5.9.5			points, the forces at these points, mentioned in 5.9.2 and 5.9.3 should probably have the same value of 1500 N instead of 1000N.		
44)	UK	5.9.5		ge	Following test commissioned by the health & safety Executive in the UK, it was felt that the strength of arm locking devices, which is set out in the standard, needs to be reviewed.	The wording should be changed: Arm locking systems shall be designed to resist a force of 4,5 % of the capacity of the lift without permanent deformation, and to resist a force of 6,75 % of the capacity without breakage. The forces used however shall not be less than 1 500 N and 2 250 N respectively. Forces are assumed to act horizontally at the load carrying points, and in the most unfavourable direction, with the arms fully extended.	
45)	DE	5.9.6	Sentence 3	ge		20% is considered too high and the possibilities to dimension the device resisting to a force of 30% of the rated load without breakage can lead to not correct design (bending could be accepted!)	
						We propose to change as follows: Each end stop shall be designed to resist a horizontal force of 10 % of the rated load, applied to the top, without permanent deformation.	
46)	FR	5.9.6	3 rd paragraph	te	It is more favourable to stay in the yield stress (and consequently to delete the following section of sentence « or to resist a force of 30 % of the rated load without breakage »)	Rewrite the 3 rd paragraph such as: « Each end stop shall be designed to resist a horizontal force of 20 % of the rated load, applied to the top, without permanent deformation. »	
47)	IT	5.9.6 "Roll- off safety device"	paragraph		20% is considered too high and the possibilities to dimension the device resisting to a force of 30% of the rated load without breakage can lead to not correct design.	It is proposed to change the sentence as follows: "Each end stop shall be designed to resist a horizontal force of 10 % of the rated load, applied to the top, without permanent deformation."	

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	NC ¹	Subclause (e.g. 3.1)	Figure/ Table/ (e.g. Table 1)	comment ²				
48)	NL	5.9.6		te / ed	 Roll off safety The text in paragraph 5.9.6 states that a horizontal force of 20% of the rated load has to be applied to the top of <i>each</i> end stop, without causing permanent deformation. To our opinion this 20% on each end stop is too much. The original calculations of Stertil showed a total horizontal stopping force of 19% of rated capacity for a 12 ton vehicle lift. In these calculations, <i>no</i> rolling resistance was included. Calculations of Maha showed 5% of rated load for a 5 ton rated capacity lift, but <i>with</i> rolling resistance. 1) The wording end stop is probably not clear enough. "End stop" can point to the total of stopping means at one end of the lift. It also can be defined as a single stop at the end of one runway. In the calculations of course the total is meant, as it also relates to the rated capacity of the lift as a whole. Therefore a better wording has to be found. 2) Stertil made new calculations (see Excel file), differentiated for the first 6 normative vehicles (a through f). These normative vehicles have different wheelbases, which, in combination with vehicle lifts with suitable runway lengths, results in different free distances that allow a vehicle to develop speed. This effect is limited with normative vehicles g 	1) 2) 3)	Refer to "end stop" as the total of stopping means at one end of the lift. Or define end stop as a stopping device at the end of one runway. The stopping force should be defined as maximum 20% of rated capacity applied to the total of stopping devices at one end of the lift, or 10% on each end stop at the end of one runway. The load on the end stop should not only be defined as a horizontal force. Maybe it is better to refer to it as a horizontal <i>resultant</i> force, which leaves the possibility to bring the other (resultant) forces into account.	

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2 Type of comment: ge = general te = technical ed = editorial

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					through I, because in most cases they just fit on a lift. Furthermore these vehicles have different wheel sizes, which give different angles at which the radial force is working. In the new calculations, also the rolling resistance is included, the stopping time is reduced from 1 second to the 0,8 second that Maha used in their calculation. This all results in total horizontal stopping forces from 8% to max 16% of rated capacity. Also a check is done on the height of the end stop: it should prevent the vehicle from driving over it. This is proven by the vertical resultant force that has to be smaller than the smallest <i>axle</i> load.		
					3) The expression 'horizontal force' needs to be changed. Since this horizontal force is a <i>resultant</i> of the radial force, it never works without the, also resultant, vertical force (see calculation in Excel file). When designing end stops, these forces are taken into account. Therefore the wording that is used to describe the load on the end stop should be changed as well.		

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) .	MB/ NC ¹	Clause/ Subclause (e.g. 3.1)	Fi Ta	Paragraph/ Figure/ Table/ e.g. Table 1)							C	omments		Proposed change	Observations of the secretari
	Stoppir	ng forces runway lifts													
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		tive vehicle					а	Ь	с	d	е	f			
	vehicle v wheelba	weight (max) = rated capaci		4 k VB r	<g< td=""><td></td><td>2500 2,5</td><td>3500 3</td><td>7500 3</td><td>20000 3,5</td><td>30000 4</td><td>40000 4,5</td><td></td><td></td><td></td></g<>		2500 2,5	3500 3	7500 3	20000 3,5	30000 4	40000 4,5			
	runway l			1 GV 1 1.			5,2	5,2	6,25	3,5 10	4	4,5			
		angle (max. see 5.15 c1+ c2)		. 0		[1+ASIN(100/(Lr*1000))]	1,02		1,02	1,01		1,01			
	runway a	angle (max. see 5.15 c1+ c2)	Fi Fi	ad o	1	[α*2π/360]	0,018	0,018	0,018	0,018	0,018	0,018			
	axle load	d1	A	L1 k	g		1000	1400	2500	6667	10000	18000			
	axle load			L2 k	٩		1500		5000	13333					
	wheelloa			k	<g< td=""><td></td><td>750</td><td></td><td>1250</td><td>3333</td><td></td><td></td><td></td><td></td><td></td></g<>		750		1250	3333					
	loadinde						98		117	150		144			
		wheel radius	F		mm		379		392	467					
	contact a		ß				42,60 0,74								
	contact a free dist		ci s		ad m I	[Lr-WB]	2,7			6,5		0,62 10			
		ional constant	g		m/sec ²	(c) (c)	9,81		9,81	9,81		9,81			
		esistance coefficient	c				0,01		0,01	0,01		0,01			
		esistance	F	r N	N I	[c.g.M]	245		736	1962		3924			
	maximu	ım speed	V	r	m/s	[√(2*(g*sin(a)-Fr/M)*s)]	0,6423	0,5798	0,7021	0,9862	1,2490	1,2189			
	ectimate	ed stopping time		lt s			0,8	0,8	0,8	0,8	0,8	0.8			
		ea stopping time esulting stopping force		is N		[M*vh]	2007			24656					
		age of rated capacity	ľ		%		8	7	9	13	10050	16			
	total ra	idial force on stop devic	e F	: N	N I	[Fs/sinß]	2966	3781	9866	39871	76311	105130			
	total re-	sulting vertical force		v N	u i	[Fs/tanß]	2183	2804	7249	21222	60245	85662			
		age of minimal axle load			N %	ti sitamo)	2183		7343	31333	60243	43			
			1	ľ								1			
))	DE	5.12				ge		There	e is n	o tes	t for t	his or requ	rement for The para	graph does not take care about the	
1		0.12				90									
								now	much	ioac	i the i	ixing devic		of fixing device but it asks to prevent	
								withs	stand				slack or	free play of lifting element. This can	
	1													n case of particular lift where the load	1

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							carrying devic element but le	e is not fixed to the lifting an on these.	
							Here it is taken for granted that the load carrying device stops, without considering the forces that arise from this situation.		
							analysis, to co condition that lift (clearly diff	sue could need in depth onsider also the different load could arise for some parts of the ferent from the ones coming graph 5.5.2 load and forces)	
							the end of one ask for this tes load carrying o blocking of cy	platform scissor lift, obstacle at platform: normally NB do not st, the unintended blocking of device is related to unintended linder movement (i.e. due to sertion of latches)	
							But the issue	can become really complex.	
50)	DE	5.13.2		ge	 1 Our experience says us that som 2 post lifts at the market do not apply and / or mechanical systems that detect a prevent the movement from the initial 	electrical break and	alternative to selement that n	h refers to safety systems safety catch, like second lifting ormally works unloaded and y in case of failure of main lifting afety nut).	
					(Without electrical or mechanical safet possible to apply this point).		post and sync should be: do	post lift with one cylinder per hronization rope the question we need to provide a safety etects the breakage of on rope?	
51)	FR	5.14.2 Annex E	Table E.1	te	Protection against leakage: The appendix E is the resumption of a Recommendation for Uses » (RfUs) (elaborated by the European coordinat notified bodies	CNB / .8.14	leakage) of this to be revised* a Rewrite into the	es (no devices of protection against a RfUs are not satisfactory and have as indicated hereafter. a Appendix E: (1) (4) and (5) such e (latches are required in EN	

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						1493)»	
52)	DE	5.15		ed	In the translated German version of EN1493: 2010 is in section 5.15 in the 3rd Paragraph states that when mentioned under c) lifts the safety related parts of control systems (mechanical synchronization monitoring as torsion bars, synchronization cables) are to be interpreted according to PL d ISO13849. The index c) does not exist in the translation. In the English version is defined analogously to that for all platforms (as subscript c) any) with synchronization control the safety-related parts of control systems (mechanical synchronization monitoring as torsion bars, synchronization cables) to PI d ISO 13849 are interpreted. 5.15 Additional requirements for lifts with several drives or lifting elements If vehicle lifts are designed to carry the load on several drives or lifting elements it shall be assured the load; NOTE 1 When placing the load, load differences between separate lifting elements is thall be assured th a difference of 50 mm or 1° of til in case the difference is more than 50 mm; 2) an additional 100 mm difference in case of blockage of the lifted eding platforms respectively lifting elements are not overdineation (see 54.3 and (informative)): 1) a difference of 50 mm or 1° of til in case the difference is more than 50 mm; 2) an additional 100 mm difference in case of blockage of the lifted load, rupture of the driving or using the hold all 00 mm difference in case of blockage of the lifted load, rupture of the driving or using the hold and using initing and diversing (case sensing and/or leveling diversion) 2) are additional 100 mm difference in case of blockage of the lifted load, rupture of the driving or using the additional diversing (ruba sensing and/or leveling divers). NOTE 2 For vehicle lifts mentioned under 1) and 2). Measures shall be taken to overding including the additional diversing (ruba sensing and/or leveling diving). NOTE 2 For vehicle lifts mentioned in 3) special attention (nepoted in beliving or using the additing all diversing (ruba sensing and/or leveling diving). Note 2		

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					d is required in accordance with EN 1 The list with letters missing in the Get of EN 1493, there are only indents pro The demand for P Ld is referenced in both the German and in the original E version. Here it must be: "Safety-relation control systems for the under 3) said "	rman version esent. correctly in english ted parts of			
53)	IT	5.15		Te	There is an editing error: the penultim sentence should read: "Safety related control systems for vehicle lifts menti- c3) shall comply with performance lev ISO 13849-1:2006."	d parts of oned under			
54)	FR	5.17.2	(new clause)	te	In the distances of safety, only the dist the passages of fingers and feet were	e kept.		e distances of safety for the nds, legs, body. (Reintroduce andard of 1998)	
55)	DE	5.22		ge	Is it performance level "d" or "c"?		The standard a	asks for PL d	
56)	NL	5.4.1 5.4.2 5.22		ge/te	 Control positions / Remote control Current situation: EN 1493:2010 has the following in 5.4.2: a) Control devices shall be design arranged so that they are within of a standing operator, and so operator is not jeopardized by the motion of the lift or parts of the motion of the lift or parts of a release switch at the vehicle lift to be pushed when using the re 	4.1 and ed and easy reach that the y the load or the lift. ed) shall idditional ft which has	examples of so which the requi be fulfilled". The these are gathe At least the stat could be chang moved to Anne innovative solut a probably bette Examples of su - A load sen remote con	us of the additional release switch ed into 'example of a solution' and x B. That would open the way for ions that solve the safety issues in	

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					 control. This additional switch shall be located so that the person pushing it has a direct view to the load to be lifted/lowered. c) The additional release switch is not necessary if the remote control system will only operate within a defined standing area which gives the operator a direct view to the load to be lifted/lowered (e.g. short cable, infrared control system). d) The control position to operate the vehicle lift shall be designed and arranged, so that the operator can watch the load carrying device and the load whilst in motion, as well as the space under the load carrying devices. e) If the vehicle lift <i>is intended to be used</i> so that the hazardous area cannot be completely viewed from the operating position (the use of tools like mirrors or cameras/monitors is acceptable), e.g. vehicle lifts for rail bound vehicles, one or more additional release switch(es) approving the commands for the lifting movements (on the side of the lifting system position) are required. 	 e.g. 300 mm, when using the remote control. With in-ground heavy duty vehicle lifts, it would be easier to position the adapters under the pick-up points of the vehicle this way. It has to be done lying on the floor to be able to watch the adapters and pick-up points and to move the adapters into the right position. Without the remote control, operators may tend to position the adapters 'in the ball park' and then raise the vehicle to see if the adapters are positioned well. ('foreseeable misuse')This can lead to dangerous situations. But 	

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					Comments:			
					 a) This general requirement seem fixed control devices that are eimounted on the lift of in the vicil lift. Therefore the risk of being jis present. An important aspect that the operator has to be closs lift/load to operate the lift. The recould be achieved by positionin device away from the lift, or by remote control. The latter leave operator a choice to operate the convenient (safe) position. b) A remote control offers several One is mentioned above under is that it solves the problem of wentioned under d) and e). The can walk around the lift and vel operating it (in case of a wireles control), and thus has the poss the whole area during lifting and This does not require an "additi switch at the vehicle lift" which a more dangerous position. In gadditional release switch is not it's meant for: offering safety. A blocking safer solutions like the control, because (as far as I kn any manufacturer is using it and (legally allowed to) using the release to the solution of the secont of the solutions is like the control and the solutions like the control and the control and the solutions like the control and c	ither inity of the jeopardized there, seems se to the requirement og the control using a es the e lift from a advantages. ra). Another visibility e operator hicle while ss remote ibility to view d lowering. ional release is potentially general, the doing what actually it is e remote ow) hardly d thus not emote control.		
					 device away from the lift, or by remote control. The latter leave operator a choice to operate the convenient (safe) position. b) A remote control offers several One is mentioned above under is that it solves the problem of wentioned under d) and e). The can walk around the lift and vel operating it (in case of a wireles control), and thus has the poss the whole area during lifting and This does not require an "additi switch at the vehicle lift" which a more dangerous position. In g additional release switch is not it's meant for: offering safety. A blocking safer solutions like the control, because (as far as I km any manufacturer is using it and 	using a es the e lift from a advantages. r a). Another visibility e operator hicle while ss remote ibility to view d lowering. ional release is potentially general, the doing what actually it is e remote ow) hardly d thus not emote control.		

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	NC	(e.g. 3.1)	Table/ (e.g. Table 1)	comment			
					requires two people to operate it.		
					c) Limiting the area in which the remote control can be used, takes away the advantage of the better visibility with the remote control.		
					 d) This is exactly what the remote control offers. But, as stated under b), few manufacturers are willing to offer it conform EN1493, even fewer customers want to buy such a lift. 		
					e) It seems that it is the <i>type of vehicles</i> that are lifted (and therefore the lift type) which defines if the "hazardous area cannot be completely viewed from the operating position", rather than what "the vehicle lift is intended to be used" for. Therefore the whole matter of control devices could be better addressed by vehicle and lift type. This is actually already done in case of rail bound vehicles.		
					General: Regarding the risk of the use of remote controls with lifting equipment, a comparison with overhead cranes and e.g. lifting equipment on vehicles might be useful. The remote control offers a great freedom to choose the best position for operating and watch the load and the area around it. The fact that it is possible to stand under the load while operating, does not prevent the use of remote controls. In training and warning, operators are told never to stand under		

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					the load. In vehicle lift land we have paragraph 5.22, where the additional release switch also does not offer more safety, because the reduced lowering speed and the additional requirement regarding unintentional lowering prevention is already taking care of that. In the US, there are no additional requirements regarding the use of remote controls, and the use of them with in-ground and other lifts is widespread. We never heard of (fatal) accidents related to the use of remote controls without additional release buttons on vehicle lifts.		
57)	DE	5.22.3		ge	 5.22.3 Speed lifting and lowering The reduction of the speed in this mode of operation (working under the load during lifting and lowering movement) for all vehicle lifts to 300 mm / min, it is not workable and hardly be executed technically. For vehicle lifts used to lifting and lowering rail vehicles the reduction to 300 mm / min is alright, but from our point of view for the remaining vehicle lifts would be a reduction to 600 till 1000 mm / min makes sense and quite sufficient to safety related requirements. 	The speed limit provided by the standard are(A) Standard lift 0,15m/sec 150mm/sec9000mm/min(B) Lift for trains 0,015m/sec 15mm/sec900mm/min(C) Lift where is permitted to stay under theload in movement 5mm/sec 300mm/minReferred to a stroke of 1800 mm the lifting timeare respectively 12sec, 120sec, 360 sec.Probably (A) is too fast (the limit in practice isnever achieved), (B) is correct, (C) is too slowif referred to a whole stroke but if it is referredto the possibility to handle two speed andselect the low speed only for small adjustmentin height (that ask for the operator under theload in movement) it can be justified.Obviously the double speed involves technicalcomplications and cost but it has to be related	

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							to the effectiv	e risk for the operator.	
								the risk for the operator was s priority and so the low speed ative.	
							But it can be o	discussed.	
58)	NL	5.22.4		ed				ore <i>the</i> " must be "lowering of more	
59)	DE	6.1.1	Last sentence	ed	The standard should define a compe	The standard should define a competent body.		ody here means notified body?	
60)	FR	7.3.1		ge	The instruction notice doesn't take int			nstructions notice, limiting the use ntrol according to the nature of the	
		7.3.2					interventions (r car repairs is a	mounting of vehicle, maintenance or n arrangement which can be discussed in the WG.	
61)	FR	7.3.1	New clause	te		itness for purpose (according to the essential equirement of 4.1.3 of the Directive 2006/42		ructions of use (7.3.1) the following	
					/EC)) is not defined in FprEN1493	2000/42	sentence: « Tests of releauser after repa	ase to service shall be made by the ir. »	
62)	FR	7.3.1		ge	The instruction notice doesn't take int			nstructions notice, limiting the use	
		7.3.2			the operator position under the vehic	e.	interventions (r car repairs is a	ntrol according to the nature of the mounting of vehicle, maintenance or n arrangement which can be discussed in the WG.	
63)	FR	5.14.2 (and Annex E)	Table E.1	te	Protection against leakage: The appendix E is the resumption of Recommendation for Uses » (RfUs) elaborated by the European coordin	CNB / .8.14	against leakag	es (no devices of protection ge) of this RfUs are not nd have to be revised* as eafter.	
					notified bodies			he Appendix E: (1) (4) and (5) plicable (latches are required in	

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