

**APRIL 2015**

**Conlegno**

**Quality monitoring analysis of UIC pallets**

## **Introduction**

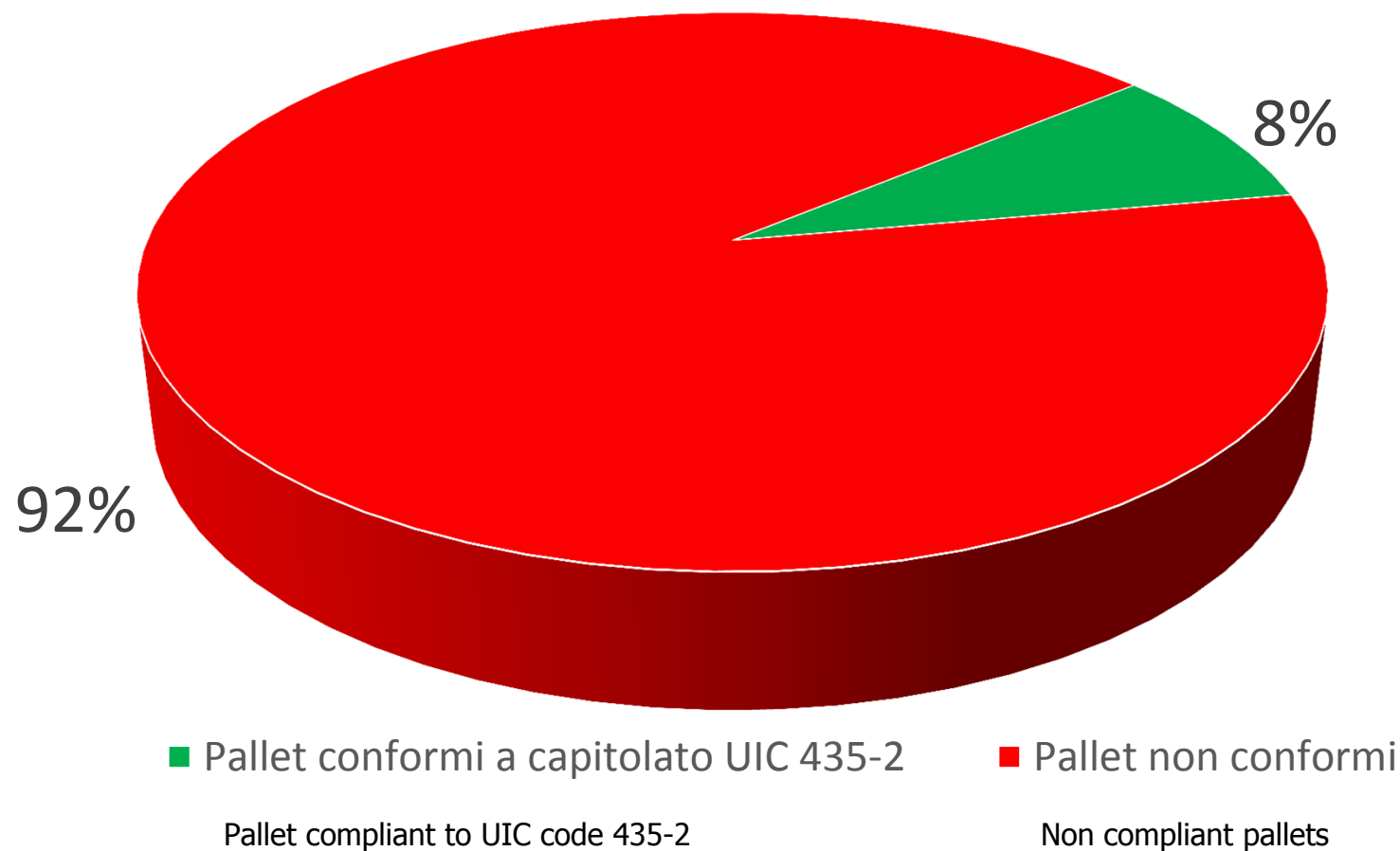
**The study was carried out by Conlegno in co-operation with ECR Italia in order to look into the quality of the UIC pallet pool circulating in Italy**

**Data was collected by independent inspection companies (during their regular visits to check the compliance of products bearing the marks held by Conlegno). The numbers of the UIC pallets found is specified in the enclosed report.**

**64 reports were completed over a period of two months. The surveys were carried out in companies throughout Italy, for a total of 260 sampled and controlled pallets; 239 pallets were not compliant with UIC code 435-2, corresponding to 92% of the samples.**

Defect Category	Description of defect	No° of defects found
<b>Minor Defects</b>	ispm 15 branding non-compliant	42
	Missing control staple	118
<b>Repair Defects</b>	Missing repair nail	8
	Repair with used wood	3
<b>Structural defects jeopardising pallet performances</b>	Thickness upper boards	51
	Thickness cross boards	79
	Thickness lower boards	37
	Width upper boards (145)	91
	Width upper boards (100)	61
	Width cross boards	45
	Width lower board (145)	34
	Width lower board (100)	20
	Blocks height (78)	59
	Poplar on cross boards	6
	Too many wood knots	1
	Inadequate nails/nailing pattern	27

## Cake compliant and non-compliant pallets



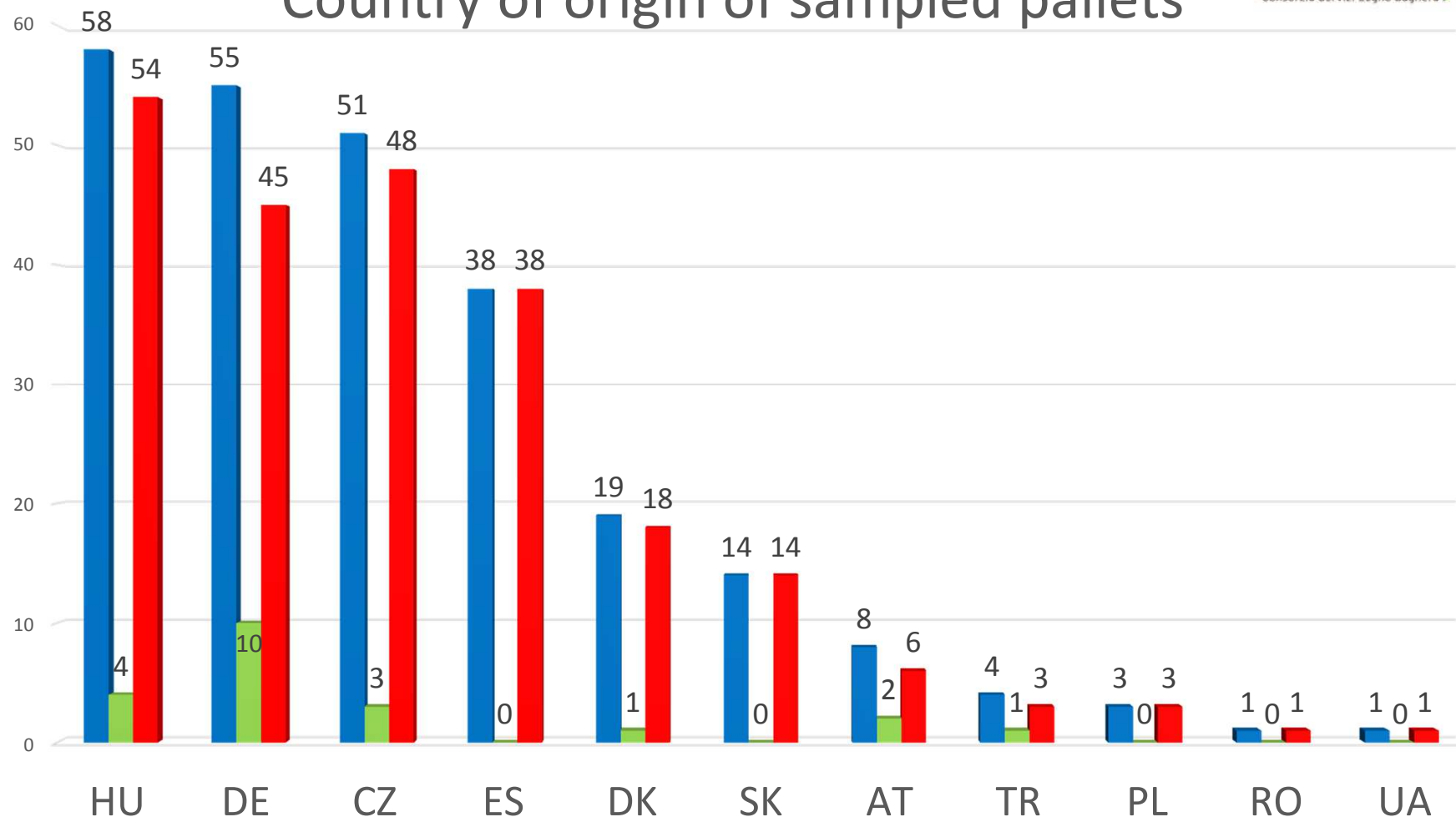
**682 defects were detected on 260 controlled pallets, corresponding to an average of 2.85 defects for each non-compliant pallet.**


**511 "structural" defects were detected, which could have jeopardized pallet performance.**


**160 were "minor" defects, however indicating a lack of controls.**


**Since these pallets have been introduced only recently, only 11 pallets showed clear signs of repairs, 8 of which did not bear the repair control nail. In 3 cases, repairs were carried out with used wood.**

## Country of origin of sampled pallets



 Totale pallet dalla nazione  
Total no° of pallets from country

 Pallet conformi a capitolato UIC 435-2  
Pallets compliant to UIC 435-2 specifications

 Pallet non conformi  
Non-compliant pallets



## Some of the pictures taken during the investigation.





## Some of the pictures taken during the investigation.



**Some of the pictures taken during the investigation**

**Correct block height 78 mm**





**Some of the pictures taken during the investigation**

**Correct board thickness 22 mm**



**Some of the pictures taken during the investigation**

**Correct board thickness 22 mm**





**Some of the pictures taken during the investigation**

**Correct board thickness 22 mm**



**Some of the pictures taken during the investigation**

**Correct board thickness 22 mm**





**Some of the pictures taken during the investigation**

**Correct cross board thickness 22 mm**





**Some of the pictures taken during the investigation**

**Tolerable cross board width up to 143 mm**



**Some of the pictures taken during the investigation**

**Tolerable board width up to 143 mm**

