



# Projekt ATLETE II – kontrola wybranych modeli pralek i lodówek

**CECED Polska**

Seminarium „Nowa etykieta energetyczna”

Warszawa, 10 kwietnia 2013 r.

# Projekt ATLETE



## – pionierzy weryfikacji etykiet

- ▶ CEL:
- ▶ Udowodnienie, że nadzór rynku oraz testowanie pod kątem etykietowania może być prowadzona w sposób systematyczny, wydajny i oszczędny
- ▶ Projekty realizowane w ramach unijnego grantu Intelligent Energy Europe
- ▶ CECED Europe jednym z 11 partnerów

# Projekt ATLETE

## – pionierzy weryfikacji etykiet

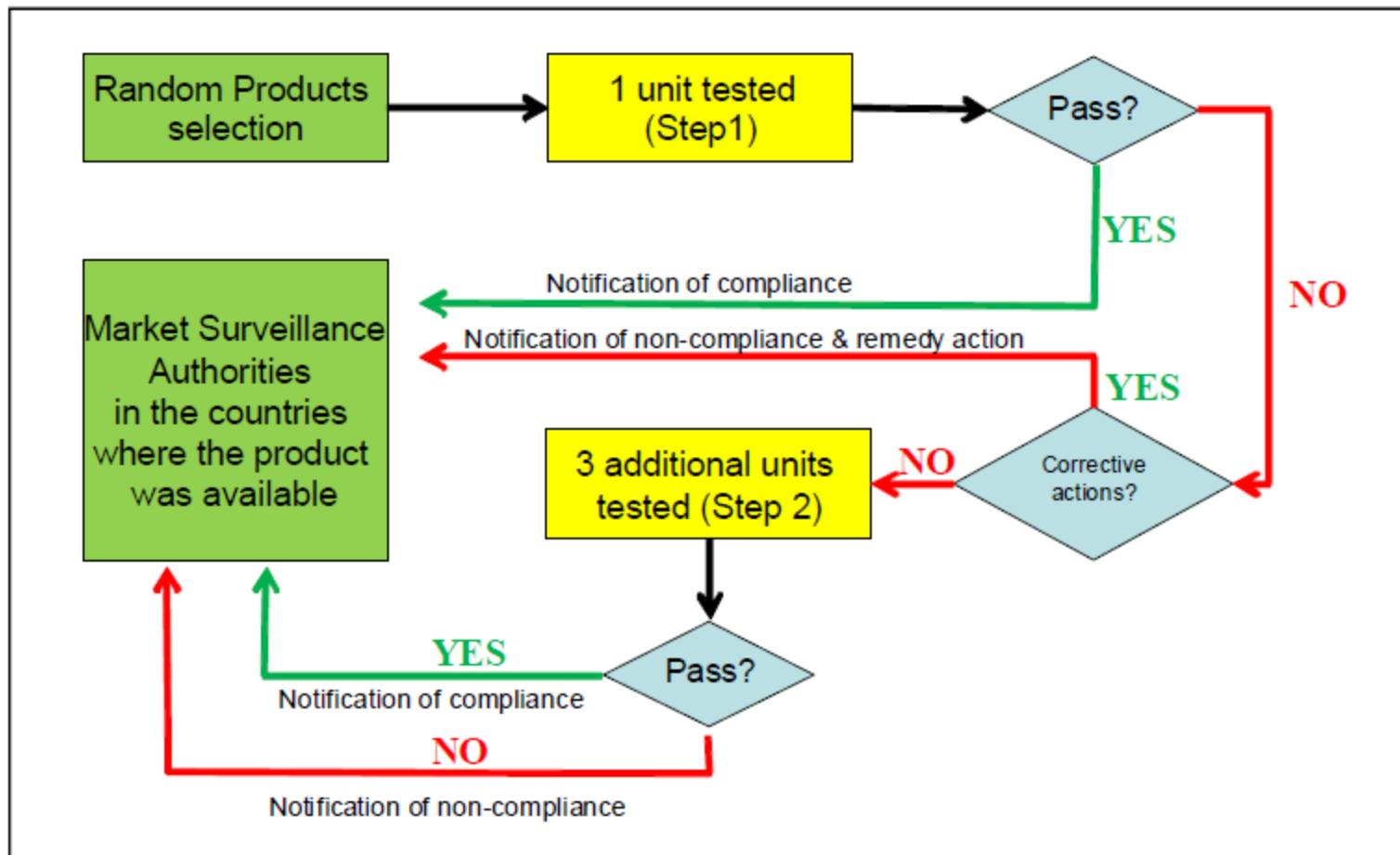


- ▶ ATLETE I: 2009–2011 – testy lodówek
- ▶ ATLETE II: 2012–2014 – testy pralek

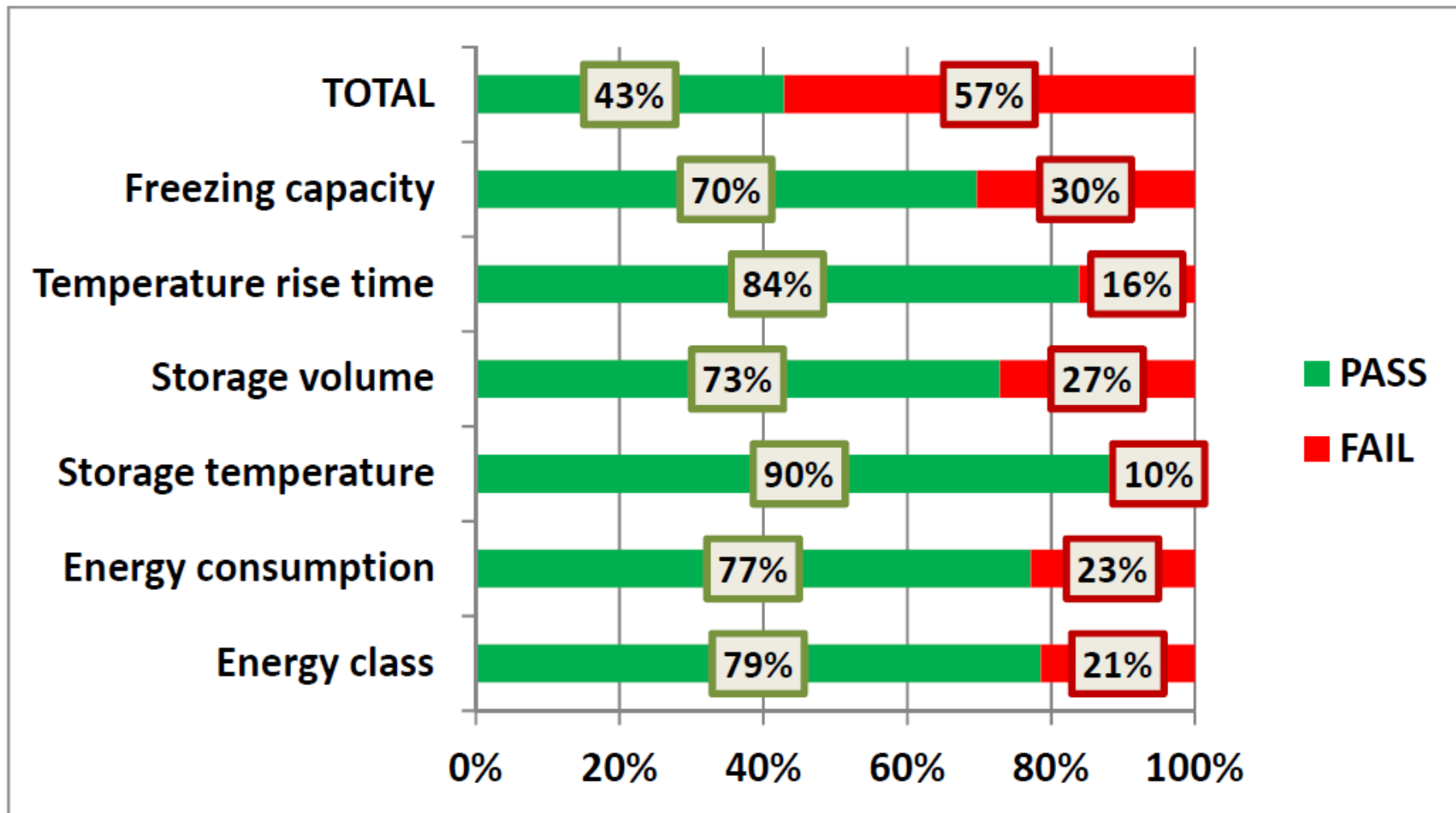
# ATLETE I



- ▶ Przetestowano 82 modele lodówek



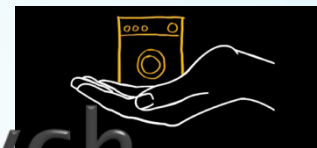
# Wyniki ATLETE I





# Wyniki wg klas energetycznych

	A++	A+	A	B	C
E					1
D			1		
C					1 1
B			8	2	
A		2	9 31		
A+		2 19			
A++	1 2				



# Wyniki wg klas energetycznych

*Table 6: Relation between the declared energy efficiency class and the compliance rate for refrigerating appliances within the ATLETE project*

Declared energy efficiency class	Compliant	Non-compliant	3 n.a.	Total
A++	2	0	1	3
A+	14	8	2	24
A	12	31	8	51
B	1	1	0	2
C	1	0	1	2
D and lower	0	0	0	0
Total	30	40	12	82



# Wyniki wg kraju produkcji

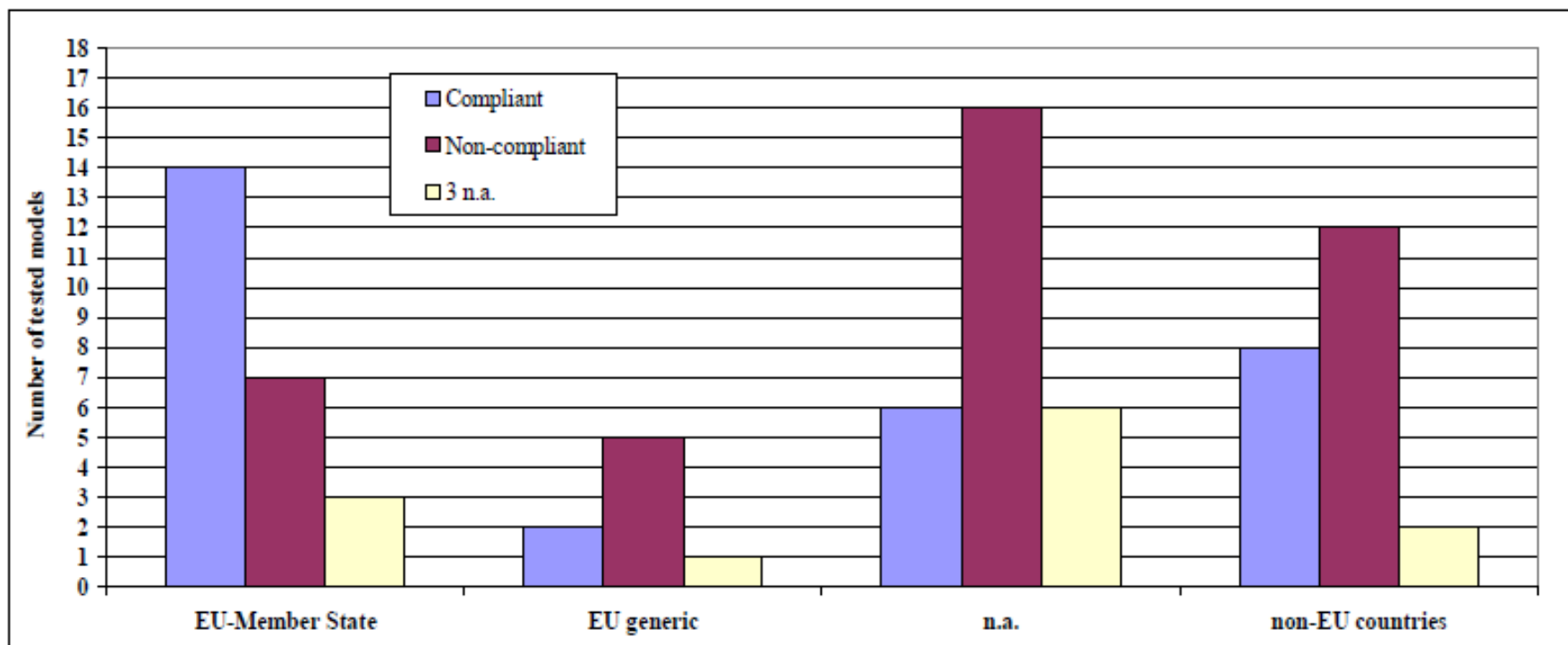


Figure 14: Place of manufacturing and compliance with the EU energy labelling



# Wyniki wg kraju produkcji



*Table 5: Place of manufacturing as and rate of compliance with the EU energy labelling*

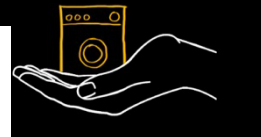
Country of manufacturing	Compliant	Non-compliant	3 n.a.	Tot.
EU-Member State	14	7	3	24
EU generic	2	5	1	8
n.a.	6	16	6	28
non-EU countries	8	12	2	22
<b>Total</b>	<b>30</b>	<b>40</b>	<b>12</b>	<b>82</b>

# Możliwości przeniesienia procedury testu na inny sprzęt



*Table 1: Elements to be modified to transfer the methodology from refrigerating appliances to the other appliances*

Products	Geographical scope	Technical scope	Sampling criteria	Laboratory selection criteria	Verification procedure	Actions after non-compliance	Harmonised standard	Reporting
REFRIGERATING APPLIANCES	OK	OK	OK	OK	OK	OK	OK	OK
WASHING MACHINES	if necessary, to be adapted	to be adapted to the specific product	if necessary, to be adapted	procedure valid, selection criteria to be adapted to the specific product	OK	OK	specific standard to be used for testing	to be adapted to the specific product
DISHWASHERS	if necessary, to be adapted	to be adapted to the specific product	if necessary, to be adapted	procedure valid, selection criteria to be adapted to the specific product	OK	OK	specific standard to be used for testing	to be adapted to the specific product
SIMILAR HOUSEHOLD APPLIANCES	if necessary, to be adapted	to be adapted to the specific product	if necessary, to be adapted	procedure valid, selection criteria to be adapted to the specific product	OK	OK	specific standard to be used for testing	to be adapted to the specific product



Step1	Step 2		
Label strip of unit 1	Label strip of unit 2	Label strip of unit 3	Label strip of unit 4
Serial N. 094403645	Serial N. 104104696	Serial N. 095004226	Serial N. 102203466

*Figure 17: Label strips for the 4 units of the same models used in Step1 and Step2 of the verification procedure*

			(n)	(%)	(n)	(%)
(old) Energy labelling scheme						
Refrigerators&freezers	94/2/EC/2003/66/EC	EN 153	1	15%	3	10%
Washing machines	95/12/EC/96/89/EC	EN 60456	1	15%	3	10%
Tumble dryers	95/13/EC	EN 61121	1	15%	3	10%
Washer-dryers	96/60/EC	EN 50229	1	15%	3	10%
Dishwashers	97/17/EC/99/9/EC	EN 50242	1	15%	3	10%
Air conditioning	2002/31/EC	EN 14511	1	15%	3	10%
Ovens	2002/40/EC	EN 50304	1	40Wh+10%	3	10%
Efficiency requirements scheme						
Refrigerators&freezers	96/57/EC	EN 153	1	15%	3	10%

*Table 10: Summary of the EU verification system and tolerances in the new labelling and ecodesign schemes*

Appliance	Implementing regulation	Standard	Verification procedure			
			Step 1		Step 2	
			Units (n)	Tolerance (%)	Units (n)	Tolerance (%)
(new) Energy labelling scheme						
Refrigerators&freezers	1060/2010/EU	EN 153	1	3/10%	3	3/10% <sup>22</sup>
Washing machines	1061/2010/EU	EN 60456	1	10% <sup>23</sup>	3	6/10% <sup>24</sup>
Dishwashers	1059/2010/EU	EN 50242	1	10/19% <sup>25</sup>	3	6/10/19% <sup>26</sup>
Televisions	1062/2010/EU	IEC 62087*	1	7%	3	7%
Ecodesign requirements						
Refrigerators&freezers	643/2009/EC	EN 153	1	3/10%	3	3/10% <sup>27</sup>
Washing machines	1015/2010/EC	EN 60456	1	4/10% <sup>28</sup>	3	4/6/10% <sup>29</sup>
Dishwashers	1016/2010/EC	EN 50242	1	10/19% <sup>30</sup>	3	6/10/19% <sup>31</sup>
Televisions	642/2009/EC	IEC 62087*	1	7%	3	7%

# ATLETE II: 2012–2014

## – testy pralek



- ▶ Kontynuacja Atlete I (testy lodówek) w ramach unijnego grantu Intelligent Energy Europe
- ▶ CECED Europe jednym z 11 partnerów
- ▶ **ZAKRES:** testy pralek w kilku niezależnych laboratoriach
- ▶ **CEL:** weryfikacja zgodności danych na etykiecie
- ▶ Testy pralek – 2013
- ▶ Budżet – 1,5 mln EUR (1,2 dotacja UE)

# Proces wyboru laboratoriów:



- ▶ 20 laboratoriów testujących pralki;
- ▶ 13 laboratoriów zainteresowanych udziałem w ATLETE II
- ▶ 8 laboratoriów zaproszono do przetargu – 7 zgłosiło oferty;
- ▶ 5–6 laboratoriów wybrano

# Wybór producentów/ modeli do testów



- ▶ 50 modeli do przetestowania w 3 turach (13–18–19);
- ▶ Zakupiono dane GfK o rynku pralek;
- ▶ Ilość modeli danego producenta zależy od jego udziałów w rynku;
- ▶ Pierwsze 13 modeli ( I tura) wybrano pod koniec grudnia



# Kryteria wybory modeli:



market share categories	total number of manufacturers	number of models selected per manufacturer	total number of models per market share	% of all tested	Market share
$\geq 10\%$	4	5	20	40%	57%
$\geq 5\% < 10\%$	3	3	9	18%	19%
$\geq 1\% < 5\%$	5	2	10	20%	14%
$\geq 0,5\% < 1\%$	5	1	5	10%	3%
$\geq 0,1\% < 0,5\%$	252	random	6	12%	7%
<b>TOTAL</b>	269		50	100%	100%



# Kryteria wybory modeli:



Load		Manufacturer's market share				
kg	Mkt share (%)	$x \geq 10$	$5 \leq x < 10$	$1 \leq x < 5$	$0,5 \leq x < 1$	$0,1 \leq x < 0,5$
$\leq 5,0$	24.0	1	2 random from 3 categories	2 products random	1 product random	1 product per 6 randomly selected producers
$> 5,0 \leq 6,0$	35.6	2	1			
$> 6,0 \leq 7,0$	26.5	1	2 random from 3 categories			
$> 7,0$	13.9	1	2 random from 3 categories			

# Kryteria wybory modeli:



❑ 3 selection batches:

market share categories	1st batch XI 2012	2nd batch IV 2013	3rd batch IX 2013	models for random selection
$\geq 10\%$	4	8	8	20
$\geq 5\% < 10\%$	3	3	3	9
$\geq 1\% < 5\%$	5	0	5	10
$\geq 0,5\% < 1\%$	0	5	0	5
$\geq 0,1\% < 0,5\%$	1	2	3	6
TOTAL	13	18	19	50

# Dobrowolny Protokół



- ▶ Firmy podpisują dobrowolne zobowiązanie do podjęcia działań w celu eliminacji niezgodności na etykiecie
- ▶ Podpisało do tej pory 27 firm (odpowiadających 41 modelom z 50)

1. AMICA
2. ARCELIK GROUP
3. BSH GROUP
4. BUSH
5. CANDY GROUP
6. CLAYTON
7. EDSON
8. ELECTROLUX GROUP
9. FAGOR-BRANDT GROUP
10. GORENJE GROUP
11. HAIER
12. HARROW
13. INDESIT GROUP
14. LAURUS

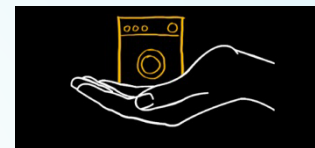
15. LINETECH
16. LG
17. LUXOR
18. MIELE
19. PANASONIC
20. PROACTION
21. SAMSUNG
22. SERVIS
23. SMEG
24. TECHNICAL
25. TUCSON
26. VESTEL
27. WHIRLPOOL GROUP

# Procedura testów:



- ▶ Zgodnie z unijnymi przepisami i norm zharmonizowaną EN 60456;
- ▶ Dwustopniowa procedura:
  - (1) test jednego modelu;
  - (2) jeśli wykryto niezgodności, testy 3 kolejnych egzemplarzy danego modelu
- ▶ Sprzęt niezgodny poddawany jest recyklingowi, zgodny na cele charytatywne

# Jakie parametry są testowane?



Harmonised standard: EN 60456:2011	Unit
<b>Delegated Regulation 2010/1061/EU and Regulation</b>	
Annual Energy consumption ( $AE_C$ )	kWh
Energy consumption ( $E_t$ )	kWh
Programme time ( $T_t$ )	min
Water consumption ( $W_t$ )	litre
Remaining moisture content (D)	%
Spin speed	rpm
Power consumption ( $P_o$ and $P_l$ ) if $> 1W$	W
Power consumption ( $P_o$ and $P_l$ ) if $\leq 1W$	W
Duration of the left-on model ( $T_l$ )	min
Washing performance	$I_w$
Water consumption (standard 60°C cotton cycle)	litre
Noise	NOT measured
<b>Regulation 1275/2008 (standby) NOT verified</b>	



# Dziękujemy za uwagę!

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