Apka

- Gravity 12.4 BLG
- ABV **5** %
- IBU **40**
- SRM 4.3
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 14 liter(s)
- Trub loss 5 %
- Size with trub loss 16.1 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 19.3 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 12.6 liter(s)
- Total mash volume 16.8 liter(s)

Steps

- Temp 64 C, Time 60 min
 Temp 76 C, Time 0 min

Mash step by step

- Heat up 12.6 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 60 min at 64C
- Keep mash 0 min at 76C
- Sparge using 10.9 liter(s) of 76C water or to achieve 19.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	3.5 kg <i>(83.3%)</i>	70 %	5
Grain	Pszeniczny	0.3 kg <i>(7.1%)</i>	70 %	4
Grain	Płatki owsiane	0.4 kg (9.5%)	85 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	15 g	60 min	11 %
Boil	Citra	10 g	15 min	12 %
Boil	Mosaic	10 g	15 min	10 %
Aroma (end of boil)	Citra	10 g	0 min	12 %
Aroma (end of boil)	Mosaic	10 g	0 min	10 %
Whirlpool	Citra	10 g	0 min	12 %
Whirlpool	Mosaic	10 g	0 min	10 %
Dry Hop	Citra	20 g	5 day(s)	12 %
Dry Hop	Mosaic	20 g	5 day(s)	10 %

Yeasts

Name	Туре	Form	Amount	Laboratory
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0.5	A 1	6	11 -	
l us-05	Ale	1)rv	1 1 1 5 a	
u3 03	7 11 C	D. y	1 + + . 5 9	