APA

- Gravity 9.8 BLG
- ABV 3.8 %
- IBU **37**
- SRM **7.4**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 12 liter(s)
- Trub loss 5 %
- Size with trub loss 13.8 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 16.5 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 8.8 liter(s)
- Total mash volume 11.3 liter(s)

Steps

- Temp **64 C**, Time **25 min** Temp **72 C**, Time **25 min**
- Temp 80 C, Time 0 min

Mash step by step

- Heat up 8.8 liter(s) of strike water to 70.3C
- Add grains
- Keep mash 25 min at 64C
- Keep mash 25 min at 72C
- Keep mash 0 min at 80C
- Sparge using 10.2 liter(s) of 76C water or to achieve 16.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	1.6 kg <i>(64%)</i>	80 %	5
Grain	Monachijski	0.5 kg <i>(20%)</i>	80 %	16
Grain	Strzegom Karmel 150	0.2 kg (8%)	75 %	150
Grain	płatki jęczmienne	0.2 kg (8%)	%	

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade	15 g	60 min	6 %
Boil	Citra	5 g	30 min	12 %
Boil	Citra	5 g	15 min	12 %
Boil	Citra	5 g	10 min	12 %
Boil	Citra	5 g	5 min	12 %
Dry Hop	Cascade	10 g	4 day(s)	6 %
Dry Hop	Cascade	10 g	2 day(s)	6 %

Yeasts

Name Type	Form	Amount	Laboratory
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