APA

- Gravity 12.4 BLG ABV 5 %
- IBU **67**
- SRM **6.5**

Batch size

- Expected quantity of finished beer 24 liter(s)
- Trub loss 5 %
- Size with trub loss 25.2 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 30.4 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 18 liter(s)
- Total mash volume 24 liter(s)

Steps

- Temp 62 C, Time 20 min
 Temp 68 C, Time 40 min

Mash step by step

- Heat up 18 liter(s) of strike water to 69C
- Add grains
- Keep mash 20 min at 62C
- Keep mash 40 min at 68C
- Sparge using 18.4 liter(s) of 76C water or to achieve 30.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	3 kg <i>(50%)</i>	79 %	6
Grain	Monachijski	3 kg <i>(50%)</i>	80 %	16

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Enigma	30 g	60 min	17.2 %
Boil	Cascade	50 g	20 min	6.9 %
Dry Hop	Citra	100 g	4 day(s)	12 %
Dry Hop	Cascade	90 g	4 day(s)	6 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-05	Ale	Dry	11 g	Safale