Apa

- Gravity 13.1 BLG
- ABV 5.3 %
- IBU **42**
- SRM 4.8
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 26.8 liter(s)
- Boil time 70 min
- Evaporation rate 10 %/h
- Boil size 32.7 liter(s)

Mash information

- Mash efficiency 83 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 21.5 liter(s)
- Total mash volume 27.6 liter(s)

Steps

• Temp 68 C, Time 80 min

Mash step by step

- Heat up 21.5 liter(s) of strike water to 74.9C
- Add grains
- Keep mash 80 min at 68C
- Sparge using 17.3 liter(s) of 76C water or to achieve 32.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Briess - Pale Ale Malt	2.34 kg <i>(38.1%)</i>	80 %	7
Grain	Pszeniczny	0.64 kg <i>(10.4%)</i>	85 %	4
Grain	Słód owsiany Fawcett	0.37 kg <i>(6%)</i>	61 %	5
Grain	Carahell	0.52 kg <i>(8.5%)</i>	77 %	26
Grain	Pilzneński	0.9 kg <i>(14.7%)</i>	81 %	4
Grain	Oats, Flaked	0.87 kg <i>(14.2%)</i>	80 %	2
Grain	Wheat, Flaked	0.5 kg (8.1%)	77 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Oktawia	20 g	60 min	9 %
Aroma (end of boil)	Falconer's flight	50 g	5 min	10.3 %
Whirlpool	Simcoe	50 g	20 min	14.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11.5 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
Fining	Whirlfloc	5 g	Boil	8 min