APA

- Gravity 11.7 BLG
- ABV **4.7** %
- IBU **18**
- SRM 3.6
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 21 liter(s)
- Trub loss 10 %
- Size with trub loss 25.2 liter(s)
- · Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 31.4 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 17.4 liter(s)
- Total mash volume 23.2 liter(s)

Steps

• Temp 65 C, Time 70 min

Mash step by step

- Heat up 17.4 liter(s) of strike water to 72.5C
- · Add grains
- Keep mash 70 min at 65C
- Sparge using 19.8 liter(s) of 76C water or to achieve 31.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	5.6 kg <i>(96.6%)</i>	81 %	4
Grain	Oats, Malted	0.2 kg <i>(3.4%)</i>	80 %	2

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	25 g	30 min	10 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M42 New World Strong Ale	Ale	Slant	70 ml	Mangrove Jack's