Rozpęd

- Gravity 11.4 BLG
- ABV ----
- IBU **47**
- SRM 4.6
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- Boil time 60 min
- Evaporation rate 8 %/h
- Boil size 24.8 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 12.3 liter(s)
- Total mash volume 16.4 liter(s)

Steps

• Temp 67 C, Time 50 min

Mash step by step

- Heat up 12.3 liter(s) of strike water to 74.8C
- Add grains
- Keep mash 50 min at 67C
- Sparge using 16.6 liter(s) of 76C water or to achieve 24.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Simpsons - Maris Otter	3.3 kg (80.5%)	81 %	6
Grain	Oats, Flaked	0.8 kg <i>(19.5%)</i>	80 %	2

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Motueka	50 g	15 min	7 %
Boil	Pacifica (NZ)	20 g	15 min	4.8 %
Boil	Columbus/Tomahawk/Zeus	10 g	60 min	15.5 %