10# powrót do korzeni

- Gravity 11 BLG
- ABV 4.4 %
- IBU **29**
- SRM **3.8**
- Style American Pale Ale

Batch size

- Expected quantity of finished beer 23 liter(s)
- Trub loss 5 %
- Size with trub loss 24.1 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 29 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 17.5 liter(s)
- Total mash volume 22.5 liter(s)

Steps

- Temp 67 C, Time 60 min
 Temp 78 C, Time 10 min

Mash step by step

- Heat up 17.5 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 60 min at 67C
- Keep mash 10 min at 78C
- Sparge using 16.5 liter(s) of 76C water or to achieve 29 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	5 kg (100%)	80 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Cascade	10 g	60 min	6 %
Boil	Mosaic	10 g	60 min	11.8 %
Boil	Cascade	10 g	15 min	6 %
Boil	Mosaic	10 g	15 min	11.8 %
Boil	Cascade	10 g	3 min	6 %
Boil	Mosaic	10 g	3 min	11.8 %

Yeasts

Name	Туре	Form	Amount	Laboratory
US West Coast	Ale	Dry	10 g	Gozdawa