pale ale

- Gravity 11.2 BLG
- ABV 4.5 %
- IBU **48**
- SRM 3.6
- Style English IPA

Batch size

- Expected quantity of finished beer 24 liter(s)
- Trub loss 5 %
- Size with trub loss 25.2 liter(s)
- Boil time 70 min
- Evaporation rate 10 %/h
- Boil size 30.8 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 15 liter(s)
- Total mash volume 20 liter(s)

Steps

- Temp 65 C, Time 60 min
 Temp 78 C, Time 10 min

Mash step by step

- Heat up 15 liter(s) of strike water to 72.5C
- Add grains
- Keep mash 60 min at 65C
- Keep mash 10 min at 78C
- Sparge using 20.8 liter(s) of 76C water or to achieve 30.8 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	Marynka	50 g	60 min	10 %
Aroma (end of boil)	Lublin (Lubelski)	50 g	0 min	4 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	18 g	Safale