Pale Ale

- Gravity 12.9 BLG
- ABV 5.2 %
- IBU **30**
- 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 70 min
- Evaporation rate 15 %/h
- Boil size 27 liter(s)

Mash information

- Mash efficiency 77 %
- Liquor-to-grist ratio 3.5 liter(s) / kg Mash size 17.5 liter(s)
- Total mash volume 22.5 liter(s)

Steps

- Temp 62 C, Time 40 min
 Temp 72 C, Time 25 min
- Temp **76 C**, Time **5 min**

Mash step by step

- Heat up 17.5 liter(s) of strike water to 68C
- Add grains
- Keep mash 40 min at 62C
- Keep mash 25 min at 72C
- Keep mash 5 min at 76C
- Sparge using 14.5 liter(s) of 76C water or to achieve 27 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt zero	5 kg <i>(100%)</i>	80 %	6

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	30 g	60 min	9.2 %
Whirlpool	Lublin (Lubelski)	30 g	0 min	5.6 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale