Pale Ale

- Gravity 10 BLG
- ABV 4 %
- IBU **18**
- 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 65 min
- Evaporation rate 10 %/h
- Boil size 25.5 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 4 liter(s) / kg Mash size 16 liter(s)
- Total mash volume 20 liter(s)

Steps

- Temp 68 C, Time 60 min
 Temp 76 C, Time 10 min

Mash step by step

- Heat up 16 liter(s) of strike water to 74C
- Add grains
- Keep mash 60 min at 68C
- Keep mash 10 min at 76C
- Sparge using 13.5 liter(s) of 76C water or to achieve 25.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pale Ale Malt	3.8 kg <i>(95%)</i>	85 %	7
Grain	Carahell	0.2 kg <i>(5%)</i>	77 %	26

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Fuggles	20 g	65 min	4.5 %
Boil	Willamette	20 g	15 min	5 %
Aroma (end of boil)	Willamette	10 g	5 min	5 %

Yeasts

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