Pale Ale

- Gravity 10.8 BLG
- ABV ----
- IBU **36**
- SRM 9.5
- Style Extra Special/Strong Bitter (English Pale Ale)

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 10 %
- Size with trub loss 22 liter(s)
- · Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3.7 liter(s) / kg
- Mash size 14.1 liter(s)
- Total mash volume 17.9 liter(s)

Steps

- Temp 68 C, Time 0 min
 Temp 67 C, Time 60 min
- Temp 76 C, Time 5 min

Mash step by step

- Heat up 14.1 liter(s) of strike water to 73.3C
- Add grains
- Keep mash 60 min at 67C
- Keep mash 0 min at 68C
- Keep mash 5 min at 76C
- Sparge using 15 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	2.4 kg <i>(63.2%)</i>	81 %	4
Grain	Weyermann - Pale Ale Malt	0.8 kg <i>(21.1%)</i>	85 %	7
Grain	Carahell	0.2 kg <i>(5.3%)</i>	77 %	26
Grain	Caramunich Malt	0.4 kg <i>(10.5%)</i>	71.7 %	110

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	26 g	60 min	10 %
Boil	Kent Goldings	5 g	20 min	5.5 %
Boil	Kent Goldings	10 g	5 min	5.5 %
Boil	Kent Goldings	10 g	0 min	5.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Wyeast - London Ale	Ale	Slant	200 ml	Wyeast Labs

Extras

Туре	Name	Amount	Use for	Time
Fining	Mech irlandzki	5 g	Boil	15 min