Pale Ale

- Gravity 12.4 BLG
- ABV **5** %
- IBU **24**
- SRM **6.8**
- Style American IPA

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 70 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 22.8 liter(s)
- Total mash volume 29.3 liter(s)

Steps

- Temp **67 C**, Time **40 min** Temp **72 C**, Time **40 min**
- Temp 76 C, Time 10 min

Mash step by step

- Heat up 22.8 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 40 min at 67C
- Keep mash 40 min at 72C
- Keep mash 10 min at 76C
- Sparge using 12.7 liter(s) of 76C water or to achieve 29 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	pale ale	5 kg <i>(76.9%)</i>	75 %	5
Grain	pszeniczny	0.5 kg <i>(7.7%)</i>	75 %	5
Grain	pale ale red	1 kg (15.4%)	75 %	40

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	chinock	35 g	35 min	8.5 %
Aroma (end of boil)	chinock	30 g	0 min	8.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
us 05	Ale	Dry	11 g	

Extras

Туре	Name	Amount	Use for	Time
Other	platki owsi	400 g	Mash	60 min