Polskie ale

- Gravity 11.9 BLG
- ABV 4.8 %
- IBU **13**
- SRM **4.7**
- Style Dortmunder Export

Batch size

- Expected quantity of finished beer 38 liter(s)
- Trub loss 5 %
- Size with trub loss 39.9 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 46.9 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 4.3 liter(s) / kg
- Mash size 40.9 liter(s)
- Total mash volume 50.4 liter(s)

Steps

- Temp 62 C, Time 10 min
 Temp 72 C, Time 45 min
 Temp 78 C, Time 5 min

Mash step by step

- Heat up 40.9 liter(s) of strike water to 66.9C
- Add grains
- Keep mash 10 min at 62C
- Keep mash 45 min at 72C
- Keep mash 5 min at 78C
- Sparge using 15.5 liter(s) of 76C water or to achieve 46.9 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	8.5 kg <i>(89.5%)</i>	80 %	5
Grain	Monachijski	1 kg <i>(10.5%)</i>	80 %	16

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Izabella	35 g	60 min	5.1 %
Boil	Saaz (Czech Republic)	50 g	3 min	4.5 %