pils

- Gravity 14.1 BLG
- ABV ---
- IBU **18**
- SRM 4.3
- Style Classic American Pilsner

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 10 %
- Size with trub loss 22 liter(s)
- Boil time 70 min
- Evaporation rate 15 %/h
- Boil size 25.9 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 15 liter(s)
- Total mash volume 20 liter(s)

Steps

- Temp 68 C, Time 50 min
 Temp 78 C, Time 10 min

Mash step by step

- Heat up 15 liter(s) of strike water to 76C
- Add grains
- Keep mash 50 min at 68C
- Keep mash 10 min at 78C
- Sparge using 15.9 liter(s) of 76C water or to achieve 25.9 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	5 kg <i>(100%)</i>	81 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	15 g	60 min	10 %
Aroma (end of boil)	Challenger	10 g	5 min	7 %
Dry Hop	Citra	10 g	7 day(s)	12 %

Yeasts

Name	Туре	Form	Amount	Laboratory
browin ale	Ale	Dry	100 g	