pierwszy lager

- Gravity 11.9 BLG
- ABV 4.8 %
- IBU **32**
- SRM 4.3
- Style Bohemian Pilsener

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 27.6 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 15 liter(s)
- Total mash volume 20 liter(s)

Steps

- Temp 67 C, Time 90 min
 Temp 78 C, Time 1 min

Mash step by step

- Heat up 15 liter(s) of strike water to 74.8C
- Add grains
- Keep mash 90 min at 67C
- Keep mash 1 min at 78C
- Sparge using 17.6 liter(s) of 76C water or to achieve 27.6 liter(s) of wort

Fermentables

| Туре | Name | Amount | Yield | EBC |
|-------|-----------------------------|-------------------|--------|-----|
| Grain | Briess - Pilsen Malt | 4 kg (80%) | 80.5 % | 2 |
| Grain | Briess - Munich Malt 10L | 1 kg <i>(20%)</i> | 77 % | 20 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|---------|--------------------------|--------|--------|------------|
| Boil | Saaz | 60 g | 60 min | 4 % |
| Boil | Saaz (Czech Republic) | 40 g | 10 min | 4 % |