Rye Pils

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU **39**
- SRM **3.8**
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 15 liter(s)
- Trub loss 0 %
- Size with trub loss 15 liter(s)
- Boil time 60 min
- Evaporation rate 20 %/h
- Boil size 18 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 4 liter(s) / kg
- Mash size 13.6 liter(s)
- Total mash volume 17 liter(s)

Steps

• Temp 66 C, Time 90 min

Mash step by step

- Heat up 13.6 liter(s) of strike water to 71.8C
- Add grains
- · Keep mash 90 min at 66C
- Sparge using 7.8 liter(s) of 76C water or to achieve 18 liter(s) of wort

Fermentables

| Туре | Name | Amount | Yield | EBC |
|-------|---------------------|----------------|-------|-----|
| Grain | Viking Pilsner malt | 3 kg (88.2%) | 82 % | 4 |
| Grain | Płatki żytnie | 0.4 kg (11.8%) | 60 % | 4 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|----------------------|--------|--------|------------|
| Boil | lunga | 15 g | 60 min | 11.5 % |
| Boil | Hallertau Mittelfruh | 20 g | 15 min | 3.1 % |
| Whirlpool | Hallertau Mittelfruh | 20 g | 30 min | 3 % |