Pils

- Gravity 13.1 BLG ABV 5.3 %
- IBU **40**
- SRM **3.9**
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 12 liter(s)
- Trub loss 0 %
- Size with trub loss 12 liter(s)
- Boil time 60 min
- Evaporation rate 20 %/h
- Boil size 15.1 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 4 liter(s) / kg Mash size 12 liter(s)
- Total mash volume 15 liter(s)

Steps

- Temp 64 C, Time 30 min
 Temp 72 C, Time 30 min

Mash step by step

- Heat up 12 liter(s) of strike water to 69.5C
- Add grains
- Keep mash 30 min at 64C
- Keep mash 30 min at 72C
- Sparge using 6.1 liter(s) of 76C water or to achieve 15.1 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	3 kg (100%)	82 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	13 g	60 min	11.5 %
Boil	Hallertau Mittelfruh	20 g	15 min	3 %
Whirlpool	Hallertau Mittelfruh	20 g	30 min	3 %