Pils

- Gravity 10.7 BLG
- ABV 4.3 %
- IBU **19**
- SRM 3.8
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 36 liter(s)
- Trub loss 5 %
- Size with trub loss 37.8 liter(s)
- · Boil time 80 min
- Evaporation rate 10 %/h
- Boil size 46.9 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 4.5 liter(s) / kg
- Mash size 31.5 liter(s)
- Total mash volume 38.5 liter(s)

Steps

- Temp **55 C**, Time **15 min** Temp **62 C**, Time **20 min** Temp **72 C**, Time **40 min**
- Temp **78 C**, Time **5 min**

Mash step by step

- Heat up 31.5 liter(s) of strike water to 58.9C
- Add grains
- Keep mash 15 min at 55C
- Keep mash 20 min at 62C
- Keep mash 40 min at 72C
- Keep mash 5 min at 78C
- Sparge using 22.4 liter(s) of 76C water or to achieve 46.9 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	6 kg <i>(85.7%)</i>	82 %	4
Grain	Viking Munich Malt	1 kg <i>(14.3%)</i>	78 %	18

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	25 g	60 min	8 %
Boil	Lublin (Lubelski)	20 g	30 min	5 %
Boil	Sybilla	15 g	10 min	3.5 %
Aroma (end of boil)	Sybilla	20 g	0 min	3.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
safale W34	Lager	Dry	22 g	