Pils

- Gravity 12.9 BLG
- ABV 5.2 %
- IBU **29**
- SRM **3.7**

Batch size

- Expected quantity of finished beer 30 liter(s)
- Trub loss 5 %
- Size with trub loss 31.5 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 38 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 26.3 liter(s)
- Total mash volume 33.8 liter(s)

Steps

- Temp 62 C, Time 20 min Temp 65 C, Time 50 min Temp 72 C, Time 10 min

- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up 26.3 liter(s) of strike water to 68C
- Add grains
- Keep mash 20 min at 62C
- Keep mash 50 min at 65C
- Keep mash 10 min at 72C
- Keep mash 1 min at 78C
- Sparge using 19.2 liter(s) of 76C water or to achieve 38 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	7.5 kg <i>(100%)</i>	82 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	25 g	60 min	9.1 %
Boil	Lublin (Lubelski)	20 g	30 min	5.4 %
Boil	Lublin (Lubelski)	35 g	15 min	5.4 %

Yeasts

Name	Туре	Form	Amount	Laboratory
safale s-23	Lager	Dry	11.5 g	

Extras

Туре	Name	Amount	Use for	Time
Fining	mech irlandzki	7 g	Boil	10 min