Pils

- Gravity 13.1 BLG
- ABV 5.3 %
- IBU 29
- SRM **3.8**
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency 86 %
- Liquor-to-grist ratio 3.1 liter(s) / kg
- Mash size 14 liter(s)
- Total mash volume 18.5 liter(s)

Steps

- Temp **63 C**, Time **30 min** Temp **72 C**, Time **40 min**
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up 14 liter(s) of strike water to 69.9C
- Add grains
- Keep mash 30 min at 63C
- Keep mash 40 min at 72C
- Keep mash 1 min at 78C
- Sparge using 15.8 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Pilsner Malt	4.2 kg <i>(93.3%)</i>	81 %	5
Grain	Weyermann - Carapils	0.3 kg <i>(6.7%)</i>	78 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	20 g	60 min	12 %
Boil	Lubelski	25 g	15 min	2.3 %
Aroma (end of boil)	Lubelski	26 g	1 min	2.3 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Saflager W 34/70	Lager	Dry	22 g	Fermentis