Pils

- Gravity 12.1 BLG
- ABV **4.9** %
- IBU 23
- SRM **3.7**
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 16 liter(s)
- Trub loss 5 %
- Size with trub loss 16.8 liter(s)
- · Boil time 90 min
- Evaporation rate 15 %/h
- Boil size 23.5 liter(s)

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 10.5 liter(s)
- Total mash volume 14 liter(s)

Steps

- Temp 55 C, Time 10 min
 Temp 63 C, Time 40 min
 Temp 72 C, Time 30 min
- Temp **78 C**, Time **2 min**

Mash step by step

- Heat up 10.5 liter(s) of strike water to 60.8C
- Add grains
- Keep mash 10 min at 55C
- Keep mash 40 min at 63C
- Keep mash 30 min at 72C
- Keep mash 2 min at 78C
- Sparge using 16.5 liter(s) of 76C water or to achieve 23.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	3.2 kg <i>(91.4%)</i>	82 %	4
Grain	Monachijski	0.3 kg (8.6%)	80 %	16

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Saaz (Czech Republic)	20 g	60 min	4.7 %
Boil	Sladek	20 g	15 min	7.6 %
Aroma (end of boil)	Sladek	10 g	0 min	7.7 %
Aroma (end of boil)	Saaz (Czech Republic)	10 g	0 min	4.5 %