- Gravity 10.7 BLG
- ABV 4.3 %
- IBU 29
- SRM 3.9
- Style German Pilsner (Pils)

Batch size

- Expected quantity of finished beer 24 liter(s)
- Trub loss 5 % •
- Size with trub loss 25.2 liter(s) •
- Boil time 60 min
- Evaporation rate 5 %/h Boil size 28.5 liter(s)

Mash information

- Mash efficiency 68 %
- Liquor-to-grist ratio 3.5 liter(s) / kg ٠
- Mash size 18.9 liter(s) .
- Total mash volume 24.3 liter(s)

Steps

- Temp 64 C, Time 20 min
 Temp 72 C, Time 40 min
- Temp 78 C, Time 10 min

Mash step by step

- Heat up 18.9 liter(s) of strike water to 70.3C
- Add grains
- ٠ Keep mash 20 min at 64C
- Keep mash 40 min at 72C •
- Keep mash 10 min at 78C
- Sparge using 15 liter(s) of 76C water or to achieve 28.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	4.5 kg <i>(83.3%)</i>	82 %	4
Grain	Monachijski	0.5 kg <i>(9.3%)</i>	80 %	16
Grain	Briess - 2 Row Carapils Malt	0.4 kg (7.4%)	75 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	15 g	60 min	7.5 %
Boil	Hallertau Tradition	30 g	60 min	5 %
Boil	Hallertau Tradition	30 g	5 min	5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM31 Bawarska Dolina	Lager	Liquid	500 ml	Fermentum Mobile

Extras

Type Name	Amount	Use for	Time
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Recipe has been printed via BREWNESS.com - a complex online solution for homebrewers to track brewing process easily.

Fining Wirflook	10 g	Boil	15 min	
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