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- Gravity 15.9 BLG
- ABV 6.7 %
- IBU **30**
- SRM **5.1**

Batch size

- Expected quantity of finished beer 15.2 liter(s)
- Trub loss 5 %
- Size with trub loss 16 liter(s)
- Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 20.1 liter(s)

Mash information

- Mash efficiency **75** %
- Liquor-to-grist ratio 3.6 liter(s) / kg
- Mash size 18 liter(s)
- Total mash volume 23 liter(s)

Steps

- Temp 55 C, Time 10 min
 Temp 62 C, Time 25 min
 Temp 72 C, Time 40 min

Mash step by step

- Heat up 18 liter(s) of strike water to 59.9C
- Add grains
- Keep mash 10 min at 55C
- Keep mash 25 min at 62C
- Keep mash 40 min at 72C
- Sparge using 7.1 liter(s) of 76C water or to achieve 20.1 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pilsner malt	4 kg (80%)	80 %	4
Grain	Monachijski	0.5 kg <i>(10%)</i>	70 %	15
Grain	Briess - Wheat Malt, Red	0.5 kg <i>(10%)</i>	70 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Lublin (Lubelski)	40 g	60 min	4 %
Aroma (end of boil)	Lublin (Lubelski)	40 g	15 min	4 %

Yeasts

Name	Туре	Form	Amount	Laboratory
gozdawa old german	Ale	Dry	10 g	