wit w

- Gravity 11.7 BLG
- ABV 4.7 %
- IBU **17**
- SRM **3.5**

Batch size

- Expected quantity of finished beer 33.5 liter(s)
- Trub loss 5 %
- Size with trub loss 35.2 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 42.4 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 25.3 liter(s)
- Total mash volume 33.8 liter(s)

Steps

- Temp 65 C, Time 30 min Temp 55 C, Time 20 min Temp 64 C, Time 60 min

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

Mash step by step

- Heat up 25.3 liter(s) of strike water to 60.8C
- Add grains
- Keep mash 20 min at 55C
- Keep mash 60 min at 64C
- Keep mash 30 min at 65C
- Keep mash 1 min at 78C
- Sparge using 25.6 liter(s) of 76C water or to achieve 42.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	4.2 kg <i>(49.7%)</i>	81 %	4
Grain	Płatki owsiane	0.45 kg <i>(5.3%)</i>	85 %	3
Grain	Pszenica niesłodowana	3.8 kg <i>(45%)</i>	75 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	East Kent Goldings	35 g	60 min	5.4 %
Boil	Saaz (Czech Republic)	30 g	20 min	3.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safbrew S-33x2	Ale	Dry	1 g	Safbrew

Extras

Туре	Name	Amount	Use for	Time
Spice	kolendra	30 g	Boil	5 min

Spice	curacao	30 g	Boil	5 min
Spice	skurk słodkiej pomarańczy	30 g	Boil	5 min