AWA

- Gravity 12.1 BLG
- ABV **4.9** %
- IBU 23
- SRM 2.3
- Style American Wheat or Rye Beer

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 15 %
- Size with trub loss 23 liter(s)
- Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 28.8 liter(s)

Mash information

- Mash efficiency 72 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 12 liter(s)
- Total mash volume 16 liter(s)

Steps

- Temp 46 C, Time 10 min
 Temp 66 C, Time 50 min

Mash step by step

- Heat up 12 liter(s) of strike water to 50.3C
- Add grains
- Keep mash 10 min at 46C
- Keep mash 50 min at 66C
- Sparge using 20.8 liter(s) of 76C water or to achieve 28.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pszeniczny	2 kg <i>(40%)</i>	85 %	4
Adjunct	Pszenica niesłodowana	1 kg <i>(20%)</i>	75 %	3
Grain	Pilzneński	2 kg <i>(40%)</i>	%	0

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	10 g	20 min	10 %
Boil	Chinook	50 g	5 min	13 %
Boil	Cascade	50 g	3 min	6 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM20 Białe Walonki	Wheat	Liquid	125 ml	Fermentum Mobile