Wieleozbożowe

- Gravity 13.1 BLG
- ABV ----
- IBU 28
- SRM **6.4**
- Style Belgian Pale Ale

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 4 liter(s) / kg
- Mash size 18 liter(s)
- Total mash volume 22.5 liter(s)

Steps

- Temp 44 C, Time 10 min
 Temp 54 C, Time 10 min
 Temp 64 C, Time 40 min
- Temp 72 C, Time 20 min

Mash step by step

- Heat up 18 liter(s) of strike water to 47C
- Add grains
- Keep mash 10 min at 44C
- Keep mash 10 min at 54C
- Keep mash 40 min at 64C
- Keep mash 20 min at 72C
- Sparge using 11.8 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pszeniczny	1.3 kg <i>(28.9%)</i>	85 %	4
Grain	Pilzneński	0.7 kg <i>(15.6%)</i>	81 %	4
Grain	Munich Malt	1 kg (22.2%)	80 %	18
Grain	Rye Malt	0.5 kg <i>(11.1%)</i>	63 %	10
Grain	Oats, Malted	0.5 kg <i>(11.1%)</i>	80 %	2
Grain	spelt malt	0.5 kg <i>(11.1%)</i>	80 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Challenger	20 g	60 min	7 %
Boil	Saaz (Czech Republic)	20 g	60 min	2.5 %
Boil	Sybilla	15 g	15 min	6 %

Yeasts

Name Typ	/pe	Form	Amount	Laboratory
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FM20 Białe Walonki Wheat	Slant	500 ml	Fermentum Mobile
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