Grodziskie

- Gravity 7.4 BLG
- ABV ---
- IBU 22
- SRM **6.3**
- Style Grodziskie/Graetzer

Batch size

- Expected quantity of finished beer 21 liter(s)
- Trub loss 10 %
- Size with trub loss 23.1 liter(s)
- Boil time 60 min
- Evaporation rate 15 %/h
- Boil size 26.6 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 9.3 liter(s)
- Total mash volume 12.4 liter(s)

Steps

- Temp **38 C**, Time **30 min** Temp **52 C**, Time **40 min**
- Temp 70 C, Time 30 min

Mash step by step

- Heat up 9.3 liter(s) of strike water to 41C
- Add grains
- Keep mash 30 min at 38C
- Keep mash 40 min at 52C
- Keep mash 30 min at 70C
- Sparge using 20.4 liter(s) of 76C water or to achieve 26.6 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilsner (2 Row) Bel	1 kg <i>(32.3%)</i>	79 %	4
Grain	Pszeniczny	1 kg <i>(32.3%)</i>	85 %	4
Grain	Smoked Malt	1 kg <i>(32.3%)</i>	80 %	18
Grain	Caramunich Malt	0.1 kg <i>(3.2%)</i>	71.7 %	110

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	10 g	50 min	10 %
Boil	Lublin (Lubelski)	30 g	20 min	4 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safbrew S-33	Ale	Dry	11.5 g	Safbrew

Extras

Туре	Name	Amount	Use for	Time
Fining	mech	5 g	Boil	15 min

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Water Agent	gips	l I() a	l Mash	60 min
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