grodziskie

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU **26**
- SRM **3.4**
- Style Grodziskie

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 26.3 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 31.7 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 21 liter(s)
- Total mash volume 27 liter(s)

Steps

- Temp 38 C, Time 30 min
 Temp 52 C, Time 15 min
- Temp 64 C, Time 15 min
- Temp 72 C, Time 30 min
 Temp 78 C, Time 5 min

Mash step by step

- Heat up 21 liter(s) of strike water to 40.6C
- Add grains
- Keep mash 30 min at 38C
- Keep mash 15 min at 52C
- Keep mash 15 min at 64C
- Keep mash 30 min at 72C
- Keep mash 5 min at 78C
- Sparge using 16.7 liter(s) of 76C water or to achieve 31.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	3 kg <i>(50%)</i>	81 %	4
Grain	Grodziski pszeniczny wędzony dębem	3 kg <i>(50%)</i>	80 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	15 g	60 min	13.5 %
Boil	Puławski	20 g	30 min	4.3 %
Boil	Magnum	5 g	10 min	13.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale US-05	Ale	Dry	11 g	Fermentis

Extras

Туре	Name	Amount	Use for	Time
Fining	mech irlandzki	5 g	Boil	10 min