Grabowski Ale

- Gravity 13.8 BLG
- ABV 5.7 %
- IBU **33**
- SRM **3.7**

Batch size

- Expected quantity of finished beer 24 liter(s)
- Trub loss 5 %
- Size with trub loss 25.2 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 30.4 liter(s)

Mash information

- Mash efficiency 82 %
- Liquor-to-grist ratio 4 liter(s) / kg
- Mash size 24 liter(s)
- Total mash volume 30 liter(s)

Steps

- Temp 45 C, Time 15 min
 Temp 55 C, Time 15 min
 Temp 63 C, Time 30 min

- Temp 73 C, Time 40 min

Mash step by step

- Heat up 24 liter(s) of strike water to 48.1C
- Add grains
- Keep mash 15 min at 45C
- Keep mash 15 min at 55C
- Keep mash 30 min at 63C
- Keep mash 40 min at 73C
- Sparge using 12.4 liter(s) of 76C water or to achieve 30.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pilzneński	6 kg (100%)	81 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	30 g	60 min	9 %
Boil	Lublin (Lubelski)	30 g	30 min	3 %
Whirlpool	Lublin (Lubelski)	30 g	30 min	3 %

Yeasts

Name	Туре	Form	Amount	Laboratory
safale wb-06	Wheat	Dry	11.5 g	