Roggenbeer

- Gravity 13.1 BLG
- ABV 5.3 %
- IBU **14**
- SRM **8.5**
- Style Roggenbier

Batch size

- Expected quantity of finished beer 18 liter(s)
- Trub loss 5 %
- Size with trub loss 18.9 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 22.8 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 4.1 liter(s) / kg
- Mash size 20.1 liter(s)
- Total mash volume 25 liter(s)

Steps

- Temp 45 C, Time 30 min
 Temp 65 C, Time 40 min
 Temp 72 C, Time 20 min
- Temp **79** C, Time **10** min

Mash step by step

- Heat up 20.1 liter(s) of strike water to 48C
- Add grains
- Keep mash 30 min at 45C
- Keep mash 40 min at 65C
- Keep mash 20 min at 72C
- Keep mash 10 min at 79C
- Sparge using 7.6 liter(s) of 76C water or to achieve 22.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Żytni	2.6 kg <i>(53.1%)</i>	85 %	8
Grain	Strzegom Monachijski typ II	1 kg <i>(20.4%)</i>	79 %	22
Grain	Pilzneński	1 kg (20.4%)	81 %	4
Grain	Weyermann - Carawheat	0.3 kg (6.1%)	77 %	97

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Hallertau	20 g	60 min	4.8 %
Boil	Hallertau	10 g	10 min	4.8 %

Yeasts

Name	Туре	Form	Amount	Laboratory
FM41 Gwoździe i Banany	Wheat	Slant	200 ml	Fermentum Mobile

Extras

Туре	Name	Amount	Use for	Time
Other	łuska	200 g	Mash	60 min