Roggenbier

- Gravity 12.9 BLG
- ABV **5.2** %
- IBU **16**
- SRM **6.3**
- Style Roggenbier

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 85 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 16.5 liter(s)
- Total mash volume 22 liter(s)

Steps

- Temp **44 C**, Time **20 min** Temp **64 C**, Time **40 min** Temp **72 C**, Time **20 min**
- Temp **79 C**, Time **1 min**

Mash step by step

- Heat up 16.5 liter(s) of strike water to 48C
- Add grains
- Keep mash 20 min at 44C
- Keep mash 40 min at 64C
- Keep mash 20 min at 72C
- Keep mash 1 min at 79C
- Sparge using 20.7 liter(s) of 76C water or to achieve 31.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Żytni	3.5 kg <i>(63.6%)</i>	85 %	8
Grain	Monachijski	1 kg <i>(18.2%)</i>	80 %	16
Grain	Pilzneński	0.75 kg <i>(13.6%)</i>	81 %	4
Grain	Caramunich® typ I	0.25 kg <i>(4.5%)</i>	73 %	80

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Hallertau	30 g	60 min	4.7 %
Boil	Hallertau	20 g	15 min	4.7 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Mauribrew Weiss Y1433	Wheat	Dry	11 g	Mauribrew