Na rogi

- Gravity 13.8 BLG
- ABV **5.7** %
- IBU **24**
- SRM **16.9**
- Style Roggenbier

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 5 %
- Size with trub loss 21 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 25.3 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 19.3 liter(s)
- Total mash volume 24.8 liter(s)

Steps

- Temp **63 C**, Time **40 min** Temp **72 C**, Time **20 min**
- Temp 76 C, Time 5 min

Mash step by step

- Heat up 19.3 liter(s) of strike water to 69.1C
- Add grains
- Keep mash 40 min at 63C
- Keep mash 20 min at 72C
- Keep mash 5 min at 76C
- Sparge using 11.5 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Rye Malt	2 kg <i>(36.4%)</i>	81 %	7
Grain	Weyermann - Bohemian Pilsner Malt	2 kg <i>(36.4%)</i>	81 %	4
Grain	Weyermann - Munich Malt Type 2	1 kg <i>(18.2%)</i>	78 %	23
Grain	weyermann - Caraaroma	0.5 kg <i>(9.1%)</i>	78 %	400

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Simcoe	15 g	30 min	13.2 %
Boil	Simcoe	10 g	20 min	13.2 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M36 Liberty Bell Ale	Ale	Dry	10 g	Mangrove Jack's

Extras

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