Guinnessowe

- Gravity 11.9 BLG
- ABV 4.8 %
- IBU **51**
- SRM **31.9**
- Style Dry Stout

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 80 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 16.4 liter(s)
- Total mash volume 21.1 liter(s)

Steps

- Temp **55 C**, Time **15 min** Temp **65 C**, Time **60 min**
- Temp 80 C, Time 1 min

Mash step by step

- Heat up 16.4 liter(s) of strike water to 60C
- Add grains
- Keep mash 15 min at 55C
- Keep mash 60 min at 65C
- Keep mash 1 min at 80C
- Sparge using 13.6 liter(s) of 76C water or to achieve 25.3 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	3 kg <i>(63.8%)</i>	79 %	6
Grain	Płatki jęczmienne	0.8 kg <i>(17%)</i>	70 %	4
Grain	Jęczmień palony	0.25 kg <i>(5.3%)</i>	55 %	1000
Grain	Weyermann - Carafa III	0.35 kg <i>(7.4%)</i>	70 %	1024
Grain	Viking Wheat Malt	0.3 kg (6.4%)	83 %	5

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	East Kent Goldings	90 g	60 min	4.5 %
Aroma (end of boil)	East Kent Goldings	10 g	60 min	5.1 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safbrew T-58	Wine	Dry	11.5 g	fermentis

Extras

Type	Name	Amount	Use for	Time
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Eining	WHIRLFLOC	1 2 0	Doil	10 min
Fining	WHIRLFLOC	1.2 Y	Boil	10 111111