Guinnes clone

- Gravity 10.2 BLG
- ABV 4.1 %
- IBU **45**
- SRM **27.5**
- Style Dry Stout

Batch size

- Expected quantity of finished beer 21 liter(s)
- Trub loss 10 %
- Size with trub loss 23.1 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 27.7 liter(s)

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 3 liter(s) / kg Mash size 12 liter(s)
- Total mash volume 16 liter(s)

Steps

- Temp 66 C, Time 60 min
 Temp 5 C, Time 78 min

Mash step by step

- Heat up 12 liter(s) of strike water to 2.5C
- Add grains
- Keep mash 78 min at 5C
- Keep mash 60 min at 66C
- Sparge using 19.7 liter(s) of 76C water or to achieve 27.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Simpsons - Maris Otter	2.5 kg <i>(62.5%)</i>	81 %	6
Grain	Jęczmień niesłodowany	1 kg <i>(25%)</i>	75 %	2
Grain	Simpsons - Roasted Barley	0.5 kg <i>(12.5%)</i>	70 %	1084

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	East Kent Goldings	80 g	60 min	5.1 %