Dry Stout #1

- Gravity 11.9 BLG
- ABV **5.1** %
- IBU **37**
- SRM 40

Batch size

- Expected quantity of finished beer 14 liter(s)
- Trub loss 0 %
- Size with trub loss 14 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size **19.58 liter(s)**

Mash information

- Mash efficiency 72 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 9.3 liter(s)
- Total mash volume 12.4 liter(s)

Steps

- Temp 64 C, Time 90 min
 Temp 75 C, Time 10 min

Mash step by step

- Heat up 9.3 liter(s) of strike water to 71.3C
- Add grains
- Keep mash 90 min at 64C
- Keep mash 10 min at 75C
- Sparge using 13.4 liter(s) of 76C water or to achieve 19.58 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale Malt	2 kg	80 %	15
Grain	Viking Munich Malt Light	0.7 kg	78 %	41
Grain	Viking Roasted Barley	0.25 kg	70 %	2934
Grain	Chocolate Wheat (Weyermann)	0.15 kg	75.74 %	2180

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Horizon	20 g	30 min	12 %
Boil	Horizon	10 g	10 min	12 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Irlandzkie Ciemności	Ale	Liquid	ml	Fermentum Mobile

Extras

Туре	Name	Amount	Use for	Time
Water Agent	Chlorek Wapnia	8.59 g	Mash	60 min

Water Agent	Sól	4.04 g	Mash	60 min
Water Agent	Siarczan Magnezu (MgSO4)	2.17 g	Mash	60 min
Fining	Whirlfloc Tablet	400 g	Boil	15 min