Stout

- Gravity 11.9 BLG
- ABV 4.8 %
- IBU **34**
- SRM **22.4**
- Style Dry Stout

Batch size

- Expected quantity of finished beer 22 liter(s)
- Trub loss 5 %
- Size with trub loss 23.1 liter(s)
- · Boil time 60 min
- Evaporation rate 5 %/h
- Boil size 25.4 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 15.5 liter(s)
- Total mash volume 20.6 liter(s)

Steps

- Temp 65 C, Time 60 min Temp 72 C, Time 10 min
- Temp **76 C**, Time **1 min**

Mash step by step

- Heat up 15.5 liter(s) of strike water to 72.5C
- · Add grains
- Keep mash 60 min at 65C
- Keep mash 10 min at 72C
- Keep mash 1 min at 76C
- Sparge using 15.1 liter(s) of 76C water or to achieve 25.4 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4.3 kg <i>(83.5%)</i>	80 %	5
Grain	Jęczmień palony	0.2 kg <i>(3.9%)</i>	55 %	985
Grain	Weyermann - Carafa I	0.25 kg <i>(4.9%)</i>	70 %	690
Grain	Barley, Flaked	0.4 kg (7.8%)	70 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	East Kent Goldings	50 g	60 min	5.1 %
Boil	East Kent Goldings	25 g	10 min	5.1 %
Boil	Columbus/Tomahawk/Zeus	20 g	1 min	15.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11 g	Fermentis