Foreign Extra Stout

- Gravity 17.5 BLG
- ABV 7.5 %
- IBU **50**
- SRM **48.8**
- Style Foreign Extra Stout

Batch size

- Expected quantity of finished beer 17 liter(s)
- Trub loss 5 %
- Size with trub loss 17.9 liter(s)
- · Boil time 60 min
- Evaporation rate 13 %/h
- Boil size 22.7 liter(s)

Mash information

- Mash efficiency 70 %
- Liquor-to-grist ratio 3.5 liter(s) / kg
- Mash size 24.5 liter(s)
- Total mash volume 31.5 liter(s)

Steps

- Temp **65 C**, Time **40 min** Temp **72 C**, Time **30 min**
- Temp 78 C, Time 5 min

Mash step by step

- Heat up 24.5 liter(s) of strike water to 71.4C
- Add grains
- Keep mash 40 min at 65C
- Keep mash 30 min at 72C
- Keep mash 5 min at 78C
- Sparge using 5.2 liter(s) of 76C water or to achieve 22.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	4.6 kg <i>(65.7%)</i>	80 %	5
Grain	Simpsons - Crystal Medium	0.6 kg (8.6%)	74 %	108
Grain	Castle Cafe	0.5 kg <i>(7.1%)</i>	75.5 %	480
Grain	Fawcett - Pale Chocolate	0.5 kg (7.1%)	71 %	600
Grain	Płatki owsiane	0.4 kg <i>(5.7%)</i>	60 %	3
Grain	Jęczmień palony	0.4 kg (5.7%)	55 %	1000

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Columbus/Tomahawk/Zeus	35 g	60 min	13.9 %
Aroma (end of boil)	Premiant	30 g	0 min	2.53 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Wyeast - 1728 Scottish Ale	Ale	Liquid	100 ml	Wyeast Labs

Starter	