Coffee FES

- Gravity 17.1 BLG
- ABV 7.3 %
- IBU **53**
- SRM **34**
- Style Foreign Extra Stout

Batch size

- Expected quantity of finished beer 40 liter(s)
- Trub loss 5 %
- Size with trub loss 44 liter(s)
- · Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 50.6 liter(s)

Mash information

- Mash efficiency 85 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 37.5 liter(s)
- Total mash volume 50 liter(s)

Steps

- Temp **66 C**, Time **60 min** Temp **72 C**, Time **15 min**
- Temp 78 C, Time 10 min

Mash step by step

- Heat up 37.5 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 60 min at 66C
- Keep mash 15 min at 72C
- Keep mash 10 min at 78C
- Sparge using 25.6 liter(s) of 76C water or to achieve 50.6 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	10 kg (80%)	80 %	5
Grain	Aromatic Malt	1 kg (8%)	78 %	51
Grain	Jęczmień palony	1 kg (8%)	55 %	985
Grain	Fawcett - Pale Chocolate	0.5 kg <i>(4%)</i>	71 %	600

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	80 g	60 min	10 %
Aroma (end of boil)	Marynka	50 g	15 min	10 %
Aroma (end of boil)	Marynka	50 g	5 min	10 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Vermont Ale	Ale	Slant	500 ml	Yeast Bay

Extras

Type	Name	Amount	Use for	Time
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Flavor	kawa	100 g	Boil	1 min
Flavor	skórka pomarańczy	20 g	Boil	1 min