FESST

- Gravity 17.9 BLG
- ABV ----
- IBU **41**
- SRM 36.1
- Style Foreign Extra Stout

Batch size

- Expected quantity of finished beer 20 liter(s)
- Trub loss 10 %
- Size with trub loss 22 liter(s)
- · Boil time 90 min
- Evaporation rate 15 %/h
- Boil size 26.9 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 19 liter(s)
- Total mash volume 25.4 liter(s)

Steps

- Temp 64 C, Time 60 min
 Temp 71 C, Time 15 min
- Temp **78 C**, Time **1 min**

Mash step by step

- Heat up 19 liter(s) of strike water to 71.4C
- Add grains
- Keep mash 60 min at 64C
- Keep mash 15 min at 71C
- Keep mash 1 min at 78C
- Sparge using 14.3 liter(s) of 76C water or to achieve 26.9 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Weyermann - Rye Malt	2 kg (31.5%)	85 %	7
Grain	Weyermann - Pale Ale Malt	2 kg (31.5%)	85 %	7
Grain	Weyermann - Carared	0.25 kg <i>(3.9%)</i>	75 %	45
Grain	Simpsons - Peated Malt	1 kg <i>(15.7%)</i>	81 %	5
Grain	Strzegom Karmel 600	0.25 kg <i>(3.9%)</i>	68 %	601
Grain	Weyermann - Carafa III	0.25 kg <i>(3.9%)</i>	70 %	1024
Grain	Oats, Flaked	0.6 kg (9.4%)	80 %	2

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	25 g	60 min	10 %
Boil	Marynka	25 g	30 min	10 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Dry	11.5 g	Safale