13. FSS (TB)

- Gravity 15.8 BLG
- ABV ----
- IBU **45**
- SRM 40
- Style Foreign Extra Stout

Batch size

- Expected quantity of finished beer 25 liter(s)
- Trub loss 5 %
- Size with trub loss 26.3 liter(s)
- Boil time 60 min
- Evaporation rate 10 %/h
- Boil size 31.7 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 21.5 liter(s)
- Total mash volume 28.6 liter(s)

Steps

- Temp 68 C, Time 85 min
 Temp 78 C, Time 5 min

Mash step by step

- Heat up 21.5 liter(s) of strike water to 76C
- Add grains
- Keep mash 85 min at 68C
- Keep mash 5 min at 78C
 Sparge using 17.4 liter(s) of 76C water or to achieve 31.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Pale Ale	4.1 kg <i>(57.3%)</i>	80 %	4
Grain	Smoked Malt	1.25 kg <i>(17.5%)</i>	80 %	18
Grain	Brown Malt (British Chocolate)	0.4 kg <i>(5.6%)</i>	70 %	128
Grain	Chocolate Malt (UK)	0.4 kg <i>(5.6%)</i>	73 %	887
Grain	Jęczmień palony	0.5 kg <i>(7%)</i>	55 %	985
Grain	Barley, Flaked	0.5 kg <i>(7%)</i>	70 %	4

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Target	50 g	60 min	10.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-05	Ale	Slant	150 ml	Safale