Smoked Stout Trooper

- Gravity 18.2 BLG
- ABV 7.8 %
- IBU 47
- SRM **60.5**
- Style Foreign Extra Stout

Batch size

- Expected quantity of finished beer 11 liter(s)
- Trub loss 3 %
- Size with trub loss 11.3 liter(s)
- Boil time 70 min
- Evaporation rate 19 %/h
- Boil size 14.5 liter(s)

Mash information

- Mash efficiency 72 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 12.6 liter(s)
- Total mash volume 16.8 liter(s)

Steps

- Temp 65 C, Time 40 min
 Temp 72 C, Time 40 min

Mash step by step

- Heat up 12.6 liter(s) of strike water to 72.5C
- Add grains
- Keep mash 40 min at 65C
- Keep mash 40 min at 72C
- Sparge using 6.1 liter(s) of 76C water or to achieve 14.5 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Słód Wędzony Steinbach	2.5 kg <i>(59.5%)</i>	80 %	5
Grain	Płatki owsiane	0.6 kg <i>(14.3%)</i>	75 %	3
Grain	Special B Malt (Castle)	0.3 kg <i>(7.1%)</i>	65.2 %	350
Grain	Special W Malt (Castle)	0.3 kg <i>(7.1%)</i>	65.2 %	350
Grain	Carafa Special III	0.2 kg <i>(4.8%)</i>	65 %	1400
Grain	Pszeniczny Czekoladowy	0.2 kg <i>(4.8%)</i>	73 %	1000
Grain	Jęczmień palony (Castle)	0.1 kg <i>(2.4%)</i>	55 %	1300

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	25 g	60 min	11 %

Yeasts

Name	Туре	Form	Amount	Laboratory
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WLP099 - Super High Gravity Ale	Ale	Liquid	135 ml	White Labs
Yeast				