Chocolate stockings

- Gravity 20.2 BLG
- ABV 8.9 %
- IBU **14**
- SRM **69.7**
- Style American Stout

Batch size

- Expected quantity of finished beer 11 liter(s)
- Trub loss 5 %
- Size with trub loss 11.6 liter(s)
- Boil time 70 min
- Evaporation rate 8.5 %/h
- Boil size 14 liter(s)

Mash information

- Mash efficiency 75 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 14.1 liter(s)
- Total mash volume 18.8 liter(s)

Steps

- Temp **66 C**, Time **40 min** Temp **72 C**, Time **30 min**
- Temp 76 C, Time 5 min

Mash step by step

- Heat up 14.1 liter(s) of strike water to 73.7C
- Add grains
- Keep mash 40 min at 66C
- Keep mash 30 min at 72C
- Keep mash 5 min at 76C
- Sparge using 4.6 liter(s) of 76C water or to achieve 14 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pilzneński	3.8 kg <i>(80.9%)</i>	80 %	4
Grain	Strzegom Czekoladowy ciemny	0.9 kg <i>(19.1%)</i>	68 %	1200

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Centennial	10 g	40 min	10.5 %
Aroma (end of boil)	Equinox	10 g	0 min	13.1 %
Aroma (end of boil)	Mosaic	10 g	0 min	10 %
Dry Hop	Equinox	10 g	10 day(s)	13.1 %
Dry Hop	Mosaic	10 g	10 day(s)	10 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Safale S-04	Ale	Slant	100 ml	Safale

Extras

Type	Name	Amount	Use for	Time
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Flavor	Laski cynamonu	50 g	Secondary	10 day(s)
Flavor	Kawa parzona	330 g	Secondary	10 day(s)