Dry stout

- Gravity 12.9 BLG
- ABV 5.2 %
- IBU **36**
- SRM **35.8**
- Style Dry Stout

Batch size

- Expected quantity of finished beer 45 liter(s)
- Trub loss 5 %
- Size with trub loss 48.1 liter(s)
- Boil time 60 min
- Evaporation rate 7 %/h
- Boil size 53.9 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 29.9 liter(s)
- Total mash volume 39.8 liter(s)

Steps

- Temp 68 C, Time 60 min
 Temp 78 C, Time 1 min

Mash step by step

- Heat up 29.9 liter(s) of strike water to 76C
- Add grains
- Keep mash 60 min at 68C
- Keep mash 1 min at 78C
- Sparge using 34 liter(s) of 76C water or to achieve 53.9 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Strzegom Pale Ale	7 kg <i>(63.9%)</i>	79 %	6
Grain	Weyermann - Chocolate Wheat	0.15 kg <i>(1.4%)</i>	74 %	788
Grain	Weyermann - Chocolate Rye	0.5 kg <i>(4.6%)</i>	50 %	493
Adjunct	Płatki owsiane	0.4 kg <i>(3.7%)</i>	60 %	6
Grain	Płatki pszeniczne	0.5 kg <i>(4.6%)</i>	85 %	3
Adjunct	płatki żytnie	0.6 kg <i>(5.5%)</i>	60 %	5
Grain	Fawcett - Pale Chocolate	1 kg (9.1%)	71 %	600
Grain	Castle Cafe	0.5 kg <i>(4.6%)</i>	75.5 %	480
Grain	Strzegom Barwiący	0.3 kg <i>(2.7%)</i>	68 %	1300

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Magnum	40 g	60 min	13.5 %
Boil	East Kent Goldings	50 g	30 min	5.1 %

Yeasts

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l Safale S-04	Ale	l Drv	1.20 a	l Safale
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