dry stout

- Gravity 12.1 BLG
- ABV 4.9 %
- IBU **42**
- SRM **27.4**
- Style Dry 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 3.5 liter(s) / kg Mash size 17.7 liter(s)
- Total mash volume 22.7 liter(s)

Steps

- Temp 70 C, Time 70 min
 Temp 70 C, Time 10 min

Mash step by step

- Heat up 17.7 liter(s) of strike water to 77.1C
- Add grains
- Keep mash 10 min at 70C
- Keep mash 70 min at 70C
- Sparge using 19.1 liter(s) of 76C water or to achieve 31.7 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Grain	Briess - Pale Ale Malt	4.4 kg <i>(77.9%)</i>	80 %	7
Grain	Briess - Dark Chocolate Malt	0.25 kg <i>(4.4%)</i>	75 %	827
Grain	Jęczmień palony	0.4 kg (7.1%)	65 %	985
Adjunct	Płatki owsiane	0.6 kg (10.6%)	70 %	3

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Target	45 g	60 min	10.5 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M15 Empire Ale	Ale	Dry	10 g	Mangrove Jack's