Griffin Feather

- Gravity 33.9 BLG
- ABV ----
- IBU **12**
- SRM **53.6**
- Style Russian Imperial Stout

Batch size

- Expected quantity of finished beer 13 liter(s)
- Trub loss 5 %
- Size with trub loss 13.7 liter(s)
- · Boil time 60 min
- Evaporation rate 4 %/h
- Boil size 14.8 liter(s)

Mash information

- Mash efficiency 80 %
- Liquor-to-grist ratio 3 liter(s) / kg
- Mash size 10.8 liter(s)
- Total mash volume 14.4 liter(s)

Steps

- Temp 53 C, Time 12 min
 Temp 68 C, Time 30 min
 Temp 72 C, Time 30 min
- Temp **76 C**, Time **10 min**

Mash step by step

- Heat up 10.8 liter(s) of strike water to 58.5C
- Add grains
- Keep mash 12 min at 53C
- · Keep mash 30 min at 68C
- Keep mash 30 min at 72C
- Keep mash 10 min at 76C
- Sparge using 7.6 liter(s) of 76C water or to achieve 14.8 liter(s) of wort

Fermentables

Туре	Name	Amount	Yield	EBC
Liquid Extract	Liquid Extract (LME) - Pilsner	3 kg (42.3%)	78 %	8
Grain	Caramel/Crystal Malt - 120L	1 kg (14.1%)	72 %	236
Grain	Briess - Munich Malt 10L	1 kg (14.1%)	77 %	20
Grain	Barley, Flaked	0.6 kg <i>(8.5%)</i>	70 %	4
Grain	Barley, Raw	0.5 kg <i>(7%)</i>	60.9 %	4
Grain	Grodziski pszeniczny wędzony dębem	0.3 kg <i>(4.2%)</i>	80 %	3
Grain	Briess - Dark Chocolate Malt	0.2 kg <i>(2.8%)</i>	60 %	827
Sugar	Brown Sugar, Dark	0.5 kg <i>(7%)</i>	100 %	99

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Perle	10 g	45 min	7 %

Boil	Perle	10 g	30 min	7 %
Boil	perle	10 g	15 min	7 %

Yeasts

Name	Туре	Form	Amount	Laboratory
Mangrove Jack's M44 US West Coast	Ale	Dry	11 g	Mangrove Jack's