

X FES

- Gravity **15 BLG**
- ABV **6.2 %**
- IBU **54**
- SRM **38.3**
- Style **Foreign Extra Stout**

Batch size

- Expected quantity of finished beer **25 liter(s)**
- Trub loss **3 %**
- Size with trub loss **25.8 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **29.1 liter(s)**

Mash information

- Mash efficiency **90 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **18 liter(s)**
- Total mash volume **24 liter(s)**

Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Vienna Malt	5 kg (83.3%)	79 %	7
Grain	Weyermann Palony Jeczmien	0.25 kg (4.2%)	55 %	1150
Grain	Weyermann Pszeniczny Czekoladowy	0.25 kg (4.2%)	70 %	1050
Grain	Weyermann - Carafa III special	0.25 kg (4.2%)	70 %	1400
Grain	Weyermann - Melanoiden Malt	0.25 kg (4.2%)	81 %	70

Hops

Use for	Name	Amount	Time	Alpha acid
Boil	lunga	50 g	60 min	12.5 %