

# FES - Poterowy

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- Gravity **17.3 BLG**
- ABV **7.4 %**
- IBU **50**
- SRM **44.9**
- Style **Foreign Extra Stout**

## Batch size

- Expected quantity of finished beer **22 liter(s)**
- Trub loss **5 %**
- Size with trub loss **23.1 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **27.8 liter(s)**

## Mash information

- Mash efficiency **75 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **23.4 liter(s)**
- Total mash volume **31.2 liter(s)**

## Steps

- Temp **66 C**, Time **30 min**
- Temp **73 C**, Time **30 min**
- Temp **78 C**, Time **5 min**

## Mash step by step

- Heat up **23.4 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **30 min** at **66C**
- Keep mash **30 min** at **73C**
- Keep mash **5 min** at **78C**
- Sparge using **12.2 liter(s)** of **76C** water or to achieve **27.8 liter(s)** of wort

## Fermentables

Type	Name	Amount	Yield	EBC
Grain	BESTMALZ - Bestt Pale Ale	2.2 kg (28.2%)	80.5 %	6
Grain	Wędzony bukiem Viking Malt	2.2 kg (28.2%)	82 %	10
Grain	Grodziski pszeniczny wędzony dębem	2.2 kg (28.2%)	80 %	3
Grain	Fawcett - Pszeniczny Czekoladowy	0.6 kg (7.7%)	73 %	1001
Grain	Weyermann - Carafa II	0.6 kg (7.7%)	70 %	837

## Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	50 g	60 min	8.8 %
Boil	Marynka	50 g	10 min	8.8 %