

## ABA # 55 i 56

- Gravity **13.1 BLG**
- ABV ---
- IBU **30**
- SRM **27**
- Style **American Brown Ale**

### Batch size

- Expected quantity of finished beer **38 liter(s)**
- Trub loss **5 %**
- Size with trub loss **43.7 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **52.3 liter(s)**

### Mash information

- Mash efficiency **72 %**
- Liquor-to-grist ratio **3.5 liter(s) / kg**
- Mash size **36.4 liter(s)**
- Total mash volume **46.8 liter(s)**

### Steps

- Temp **67 C**, Time **30 min**
- Temp **72 C**, Time **30 min**
- Temp **78 C**, Time **5 min**

### Mash step by step

- Heat up **36.4 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **30 min** at **67C**
- Keep mash **30 min** at **72C**
- Keep mash **5 min** at **78C**
- Sparge using **26.3 liter(s)** of **76C** water or to achieve **52.3 liter(s)** of wort

### Fermentables

Type	Name	Amount	Yield	EBC
Grain	Viking Pale Ale malt	7.4 kg (71.2%)	79 %	6.5
Grain	Viking Munich Malt	1.2 kg (11.5%)	79 %	13.5
Grain	Cara Ruby Castle	0.4 kg (3.8%)	78 %	50
Grain	Biscuit Malt	0.4 kg (3.8%)	77 %	50
Grain	Brown Malt (British Chocolate)	0.6 kg (5.8%)	--- %	135
Grain	Chocolate Malt (UK)	0.4 kg (3.8%)	--- %	1000

### Hops

Use for	Name	Amount	Time	Alpha acid
Boil	Marynka	35 g	60 min	8.4 %
Boil	Eureka	15 g	30 min	18 %
Boil	Willamette	30 g	5 min	5.2 %
Aroma (end of boil)	Eureka	35 g	0 min	18 %
Dry Hop	Equinox	50 g	3 day(s)	13.1 %
Dry Hop	Mosaic	50 g	3 day(s)	10 %

### Yeasts

Name	Type	Form	Amount	Laboratory
FM13 Irlandzkie Ciemności	Ale	Liquid	200 ml	Fermentum Mobile
FM Kveik	Ale	Liquid	200 ml	Fermentum Mobile

### Extras

Type	Name	Amount	Use for	Time
Water Agent	chlorek wapnia	1.5 g	Mash	60 min

### Notes

- 19C - Szybki i płynny start obu fermentorów po kilku godzinach od zadania gęstwy (Kveik III, Irlandzkie II).  
Po ok 3 dniach burzliwa w zasadzie skończona.  
21C  
Po 8 dniach przeniesione na cichą. Piwa wydawały się cierpkie od rabarbaru przeniesionego z gęstwą.  
Po 3 dniach chmielenia na zimno i 2 chłodzenia do  
5C rozlew. 15.12.16  
*Dec 15, 2016, 11:03 AM*