

#41 Dark Ale BA

- Gravity **14.7 BLG**
- ABV **6.1 %**
- IBU **63**
- SRM **22.4**
- Style **American IPA**

Batch size

- Expected quantity of finished beer **19 liter(s)**
- Trub loss **4 %**
- Size with trub loss **20.7 liter(s)**
- Boil time **60 min**
- Evaporation rate **10 %/h**
- Boil size **23 liter(s)**

Mash information

- Mash efficiency **85 %**
- Liquor-to-grist ratio **3 liter(s) / kg**
- Mash size **14.4 liter(s)**
- Total mash volume **19.2 liter(s)**

Steps

- Temp **66 C**, Time **60 min**
- Temp **78 C**, Time **0 min**

Mash step by step

- Heat up **14.4 liter(s)** of strike water to **73.7C**
- Add grains
- Keep mash **60 min** at **66C**
- Keep mash **0 min** at **78C**
- Sparge using **13.4 liter(s)** of **76C** water or to achieve **23 liter(s)** of wort

Fermentables

| Type | Name | Amount | Yield | EBC |
|-------|----------------------------|---------------|--------|-----|
| Grain | Strzegom Pale Ale | 2 kg (41.7%) | 79 % | 6 |
| Grain | Żytmi | 1 kg (20.8%) | 85 % | 8 |
| Grain | Wędzony bukiem Viking Malt | 1 kg (20.8%) | 82 % | 10 |
| Grain | Simpsons - Crystal Dark | 0.3 kg (6.3%) | 74 % | 158 |
| Grain | Special B Malt | 0.2 kg (4.2%) | 65.2 % | 315 |
| Grain | Black of black | 0.2 kg (4.2%) | 75 % | 500 |
| Grain | Jęczmień palony | 0.1 kg (2.1%) | 55 % | 985 |

Hops

| Use for | Name | Amount | Time | Alpha acid |
|-----------|----------|--------|----------|------------|
| Boil | Simcoe | 30 g | 60 min | 11.5 % |
| Boil | Simcoe | 20 g | 10 min | 11.5 % |
| Boil | Azacca | 30 g | 10 min | 13.1 % |
| Whirlpool | Azacca | 30 g | 0 min | 13.1 % |
| Whirlpool | Amarillo | 20 g | 0 min | 7.1 % |
| Dry Hop | Azacca | 40 g | 4 day(s) | 13.1 % |
| Dry Hop | Amarillo | 30 g | 4 day(s) | 7.1 % |

Yeasts

| Name | Type | Form | Amount | Laboratory |
|----------------------|------|------|--------|------------|
| Danstar - Nottingham | Ale | Dry | 10 g | Danstar |

Extras

| Type | Name | Amount | Use for | Time |
|--------|----------------------------|--------|-----------|-----------|
| Flavor | Płatki dębowe amerykańskie | 50 g | Secondary | 14 day(s) |